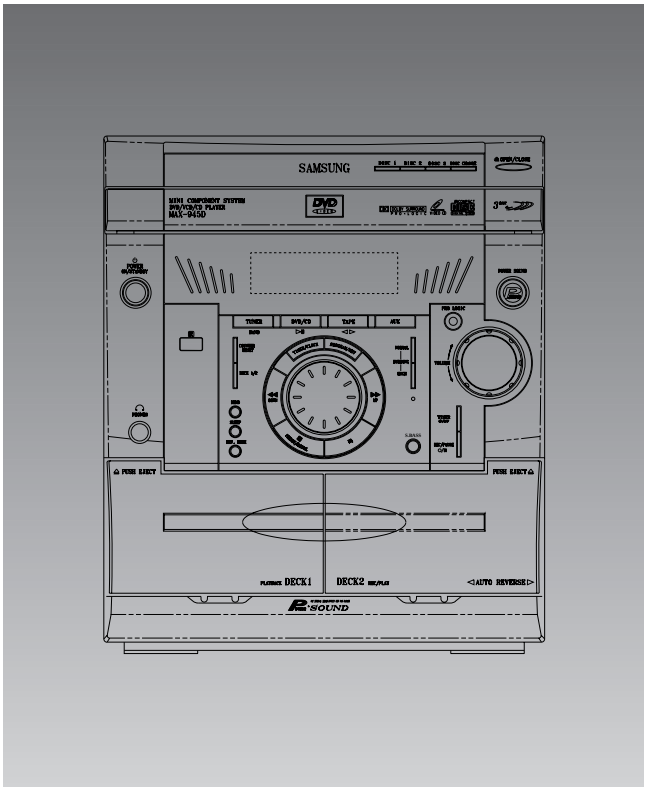
SAMSUNG

DVD MINI COMPONENT

MAX945D

SERVICE Manual

DVD MINI COMPONENT SYSTME



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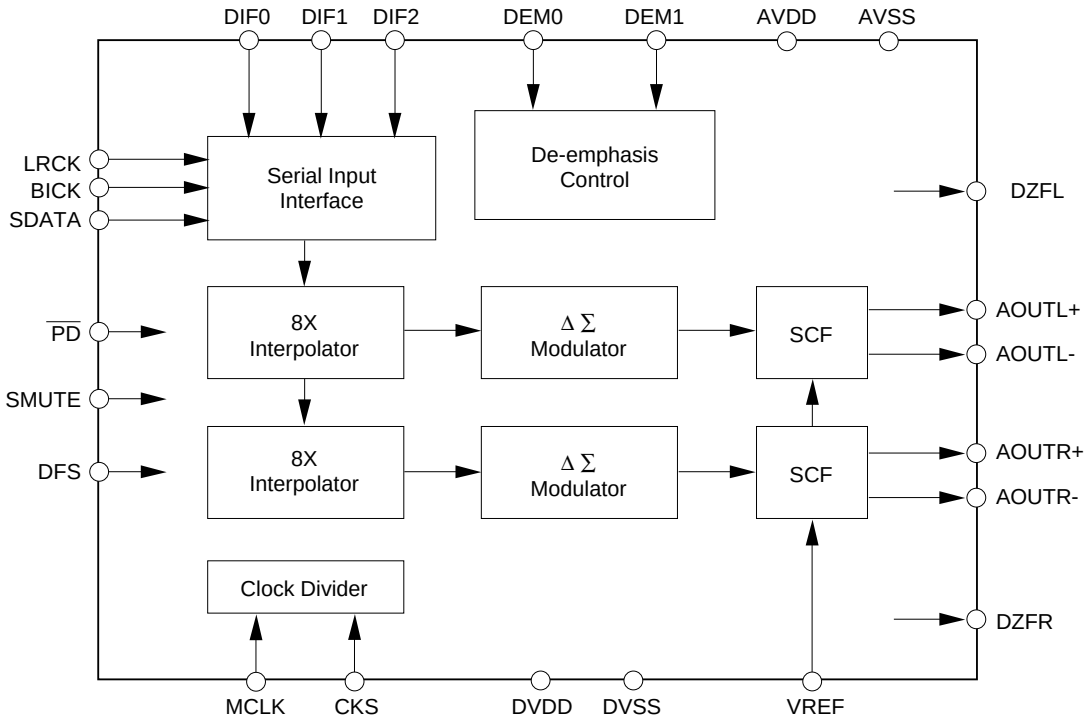
1. Reference Information(DVD Part)

1-1 IC Dsecriptions

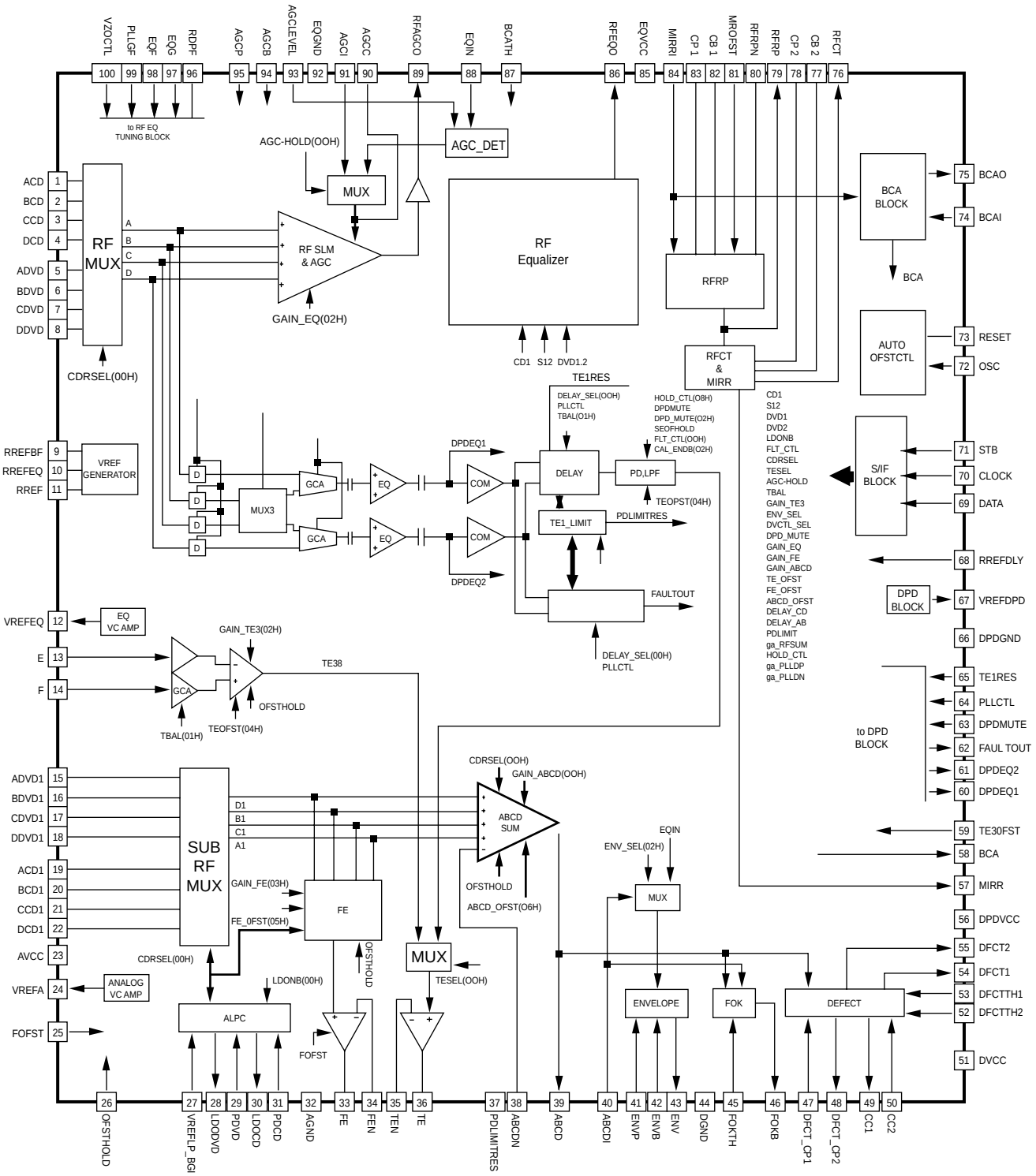
1-1-1 AIC1 (AK4324 ; Digital-to-Analog Converter)



PIN	I/O	NAME	FUNCTION	PIN	I/O	NAME	FUNCTION
1	-	DVSS	Digital ground pin	13	I	DIF0	Digital input format pin
2	I	DVDD	Digital power supply	14	I	DIF1	Digital input format pin
3	I	CKS	Master clock select pin (Internal pull-down pin) Nomal speed "L":MCLK = 256fs, "H":MCLK = 384fs Double speed "L":MCLK = 128fs, "H":MCLK = 192fs	15	I	DIF2	Digital input format pin
4	I	MCLK	Master clock input pin	16	O	AOUTR-	Rch negative analog output pin
5	I	$\overline{PD}$	Power-Down mode pin. When at "L", the AK4324 is in power-down and is held in rest. The AK4324 should always be reset upon power-pin	17	O	AOUTR+	Rch positive analog output pin
6	I	BICK	Audio serial data input pin 64fs clock is recommended to be input on this pin	18	O	AOUTL-	Lch negative analog output pin
7	I	SDATA	Audio serial data input pin 2's complement MSB-first data is input on this pin.	19	O	AOUTL+	Lch positive analog output pin
8	I	LRCK	L/R clock pin.	20	-	AVSS	Analog ground pin
9	I	SMUTE	Soft mute pin When this pin goes "H", soft mute cycle is initiated When returning "L", the output mute releases.	21	O	VREF	Voltage reference input pin
10	I	DFS	Double speed sampling mode pin (Internal pull-down pin) "L":normal speed, "H":double speed	22	O	AVDD	Analog power supply pin.
11	I	DEM0	De-emphasis frequency select pin	23	O	DZFR	Rch zero input detect pin
12	I	DEM1	De-emphasis frequency select pin	24	O	DZFL	Lch zero input detect pin

Note : Allinput pins except internal pull-down pins should not be left floating.

1-1-2 RIC1 (KS1461 ; RF)



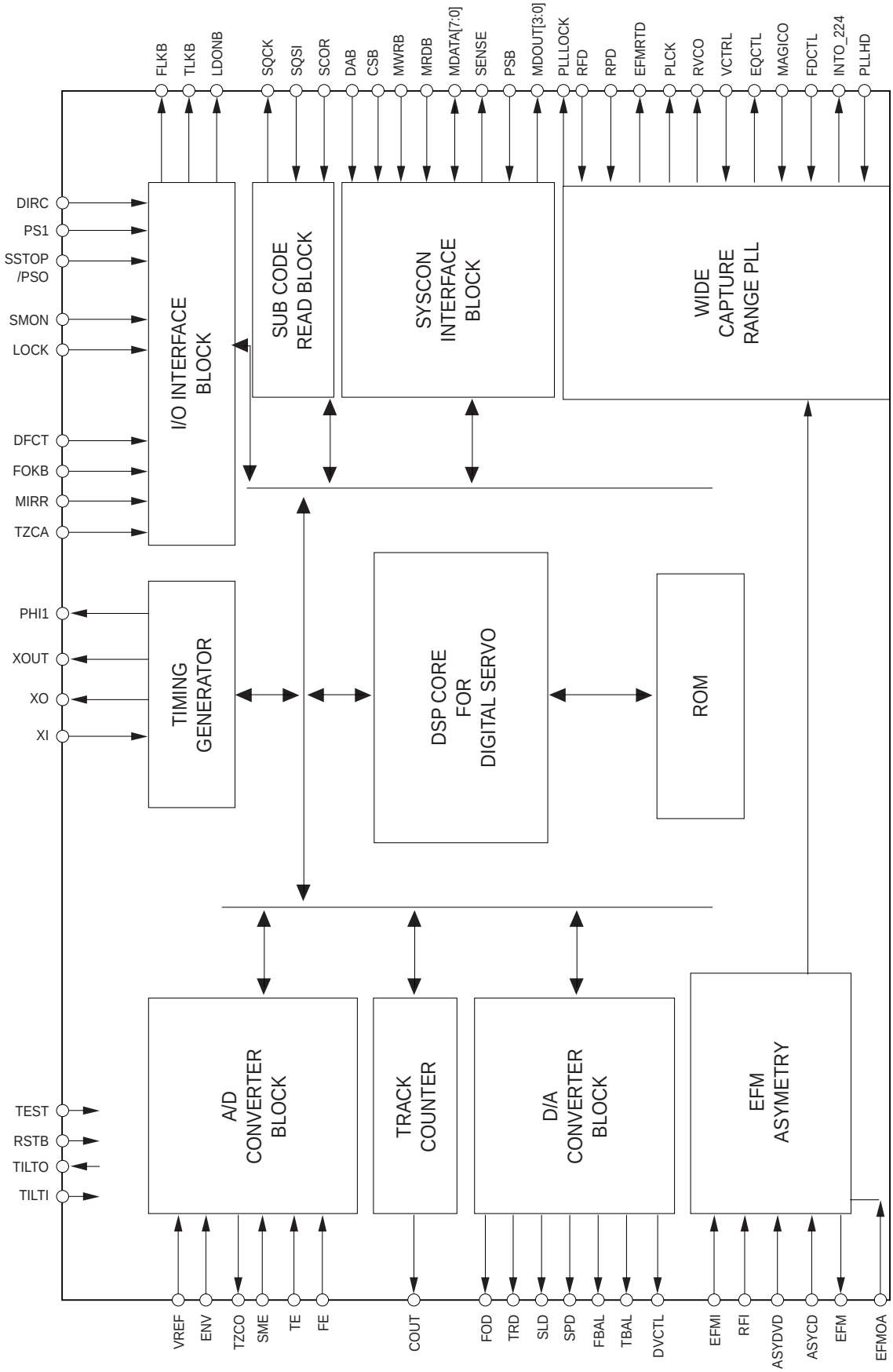
PIN NAME		I/O	FUNCTION
1	ACD	I	CD optical main beam A AC coupling input port for RF
2	BCD	I	CD optical main beam B AC coupling input port for RF
3	CCD	I	CD optical main beam C AC coupling input port for RF
4	DCD	I	CD optical main beam D AC coupling input port for RF
5	ADVD	I	DVD optical main beam A AC coupling input port for RF
6	BDVD	I	DVD optical main beam B AC coupling input port for RF
7	CDVD	I	DVD optical main beam C AC coupling input port for RF
8	DDVD	I	DVD optical main beam D AC coupling input port for RF
9	RREFBF	-	RF AMP I/O buffer bias resistance connection port
10	RREFEQ	-	RF EQ bias resistance connection port
11	RREF	-	Analog block bias resistance connection port
12	VREFEQ	O	CAP connection port for RF EQ center voltage
13	E	I	CD optical sub beam E input port for SERVO
14	F	I	CD optical sub beam F input port for SERVO
15	ADVD1	I	DVD optical main beam A input port for SERVO
16	BDVD1	I	DVD optical main beam B input port for SERVO
17	CDVD1	I	DVD optical main beam C input port for SERVO
18	DDVD1	I	DVD optical main beam D input port for SERVO
19	ACD1	I	CD optical main beam F input port for SERVO
20	BCD1	I	CD optical main beam F input port for SERVO
21	CCD1	I	CD optical main beam F input port for SERVO
22	DCD1	I	CD optical main beam F input port for SERVO
23	AVCC	P	Power voltage input port for analog part
24	VREFA	-/O	CAP connection port for analog part center voltage, Use at other block
25	FOFST	O	CAP connection port for focus auto offset (OPEN)
26	OFSTHOLD	I	ON/OFF connection port for auto offset block (L : auto offset adjustment H : serial offset adjustment)
27	VREFLP_BGI	I	BANDGAP voltage input port for ALPC
28	LDODVD	O	DVD optical laser diode driving voltage output port
29	PDDVD	I	DVD optical laser monitor diode voltage input port
30	LDOCD	O	CD optical laser diode driving voltage output port
31	PDCD	I	CD optical laser monitor diode voltage input port
32	AGND	P	Power GND port for analog part
33	FE	O	FE AMP output port

PIN NAME		I/O	FUNCTION
34	FEN	I	FE Input port for AMP GAIN setting
35	TEN	I	Input port for TE AMP GAIN setting
36	TE	O	TE AMP output port
37	PDLIMTRES	-	Bias resistance port for PDLIMIT
38	ABCDN	I	Input port for ABCD AMP GAIN setting
39	ABCD	O	ABCD AMP output port
40	ABCDI	I	ABCD AC coupling input port for SERVO monitor
41	ENVP	-	Peak hold time constant setting RC connection port for RF envelope detect
42	ENVB	-	Bottom hold time constant setting RC connection port for RF envelope detect
43	ENV	O	RF envelope detect output port
44	DGND	P	Power GND input port for digital circuit
45	FOKTH	I	Focus OK comparing level input port
46	FOKB	O	Focus OK comparator output port (L: FOCUS OK)
47	DFCT_CP1	-	Peak hold time constant connection port SERVO defect max. time setting
48	DFCT_CP2	-	Peak hold time constant connection port PLL defect min. time setting
49	CC1	O	Output port of peak detector for defect
50	CC2	I	AC coupling input port for defect
51	DVCC	P	Power voltage input port for digital circuit
52	DVCTTH2	-	Resistance connection port for PLL defect comparating level setting
53	DFCTTH1	-	Resistance connection port for SERVO defect comparating level setting
54	DFCT1	O	Defect output port for SERVO
55	DFCT2	O	Defect output port for PLL
56	DPDVCC	P	Power voltage input port for DPD TE
57	MIRR	O	Mirror output port
58	BCA	O	BCA output port
59	TE3OFST	-	Resistance connection port for 3BTE offset
60	DPDEQ1	O	DPD EQ (A+C) output port
61	DPDEQ2	O	DPD EQ (B+D) output port
62	FAULTOUT	O	DPD defect waveform output port (MONITOR)
63	DPDMUTE	I	DPD TE MUTE control port (H : MUTE)
64	PLLCTL	I	DPD TE PLL variable input port

PIN NAME		I/O	FUNCTION
65	TE1RES	I	DPD TE PLL variable bias resistance
66	DPDGND	P	Power GND input port for DPD TE
67	VREFDPD	O	CAP connection port for DPD TE center
68	RREFDLY	-	Bias resistance connection port for delta block
69	DATA	I	Data input port
70	CLOCK	I	Clock input port
71	STB	I	Data enable input port
72	OSC		OSC time constant input port for auto offset block
73	RESET	I	Reset input port for auto offset block (L : RESET)
74	BCAI	I	BCA FILTER1
75	BCAO	O	BCA FILTER2
76	RFCT	O	RF ripple center voltage output port for mirror
77	CB2	-	Bottom hold time constant RC connection port for RFCT generation
78	CP2	-	Peak hold time constant RC connection port for RFCT generation
79	RFRP	O	RF ripple AMP output port for mirror
80	RFRPN	I	RF ripple AMP GAIN input port for mirror
81	MROFST	I	RF ripple offset control port for mirror
82	CB1	-	Bottom hold time constant RC connection port for RFCT generation
83	CP1	-	Peak hold time constant RC connection port for RFCT generation
84	MIRRI	I	Input port for MIRR signal generation
85	EQVCC	P	Power voltage input port for RF EQ
86	RFEQO	O	RF EQ output port
87	BCATH	I	BCA comparating level control port
88	EQIN	I	RFAGCO input port for RF EQ
89	RFAGCO	O	RF AGC AMP output port
90	AGCC	-	AGC time constant CAP connection port
91	AGCI	I	When AGC is "HOLD", AGC voltage input port
92	EQGND	P	Power GND input port for RF EQ
93	AGCLEVEL	I	AGC level control voltage input port
94	AGCB	-	RF bottom hold time constant RC connection port for RF AGC
95	AGCP	-	RF peak hold time constant RC connection port for RF AGC

PIN NAME		I/O	FUNCTION
96	RDPF	-	Bias resistance connection port for RF EQ frequency setting
97	EQG	I	RF EQ boost gain control voltage input port
98	EQF	I	RF EQ peak frequency control voltage input port
99	PLLGF	I	RF EQ boost, peak frequency gain control port corresponding to wideband PLL (PLLG. PLLF resistance internal design)
100	VZOCTL	I	RF EQ control port (When No. PLLG isn't adjusted, apply DC CTL voltage.)

1-1-3 SIC1 (KS1452 ; Digital Servo)



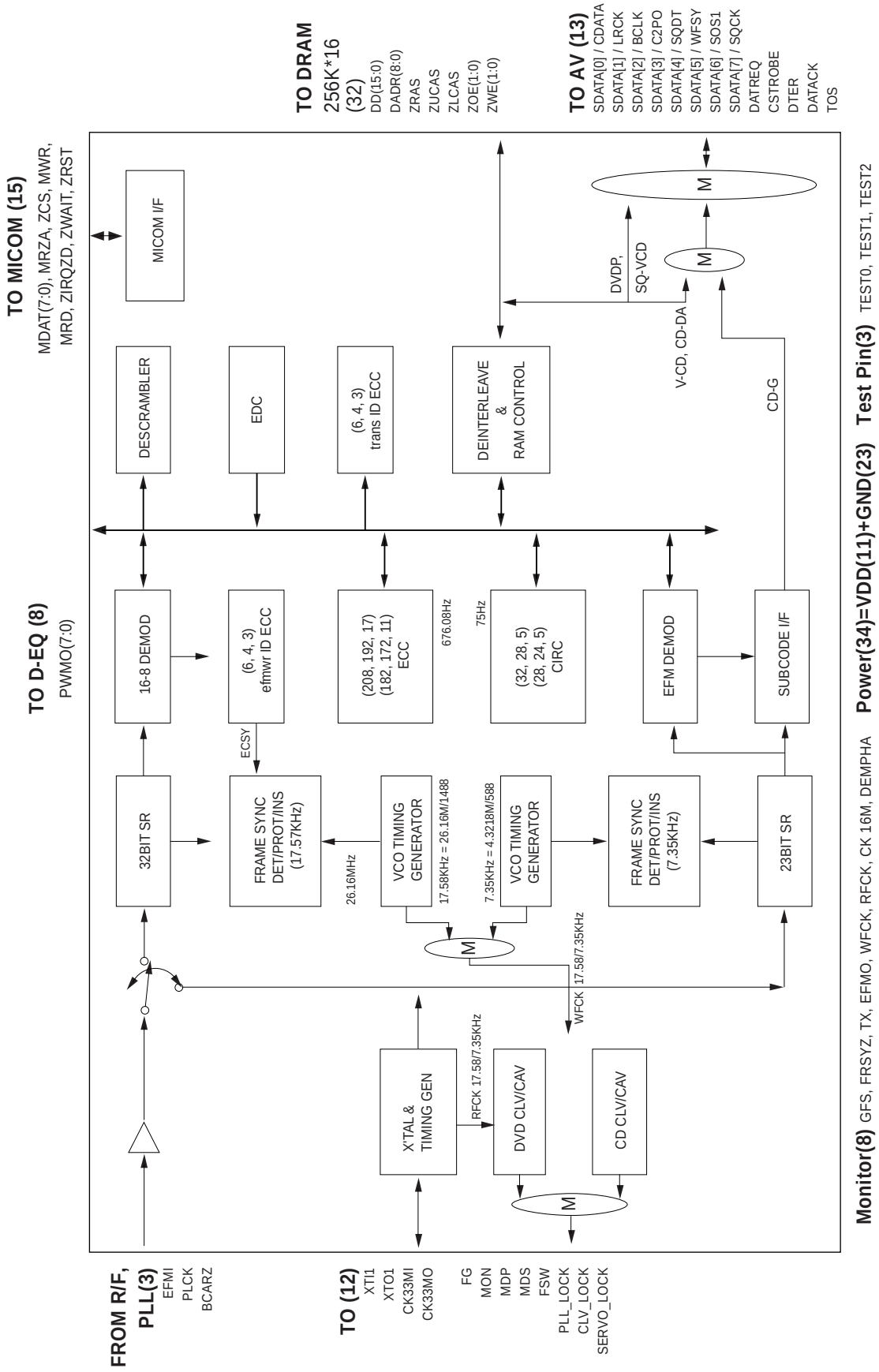
PIN NAME		I/O	FUNCTION
1	MDOUT3	O	Mode data3 out controlled by micom
2	SSTOP/PSO	I	Limit switch/sled position sensor input pin0
3	PS1	I	Sled motor position sensor input pin 1
4	TEST	I	Test pin (L : normal H : test)
5	COUT	O	Counter clock
6	FLKB	O	Focus servo lock signal output pin
7	TLKB	O	Tracking servo lock signal output pin
8	PSB	I	0 : 1BIT 1 : 8BIT
9	RSTB	I	System reset signal input pin
10	CSB	I	Micom chip select pin
11	DAB	I	Micom data/address select pin
12	MWRB	I	Micom write clock signal input pin
13	MRDB	I	Micom read clock signal input pin
14	MDATA0	I/O	Micom data pin 0
15	MDATA1	I/O	Micom data pin 1
16	MDATA2	I/O	Micom data pin 2
17	MDATA3	I/O	Micom data pin 3
18	MDATA4	I/O	Micom data pin 4
19	MDATA5	I/O	Micom data pin 5
20	MDATA6	I/O	Micom data pin 6
21	MDATA7	I/O	Micom data pin 7
22	SENSE	O	Internal status monitor pin
23	DVDD	P	Servo logic & ROM VDD power supply pin
24	XI	I	System clock signal input pin
25	XO	O	System clock signal output pin
26	XOUT	O	Clock out (33.9688MHz) to DSP
27	DVSS	P	Servo logic & ROM VSS power supply pin
28	SQCK	O	Clock output pin for subcode data read
29	SQSI	I	Subcode data input pin
30	SCOR	I	Timing detection input pin for subcode data read
31	SMON	I	Motor ON signal input pin
32	LOCK	I	Lock signal input pin
33	DIRC	I	Direct jump control (for 1 track jump)

PIN NAME		I/O	FUNCTION
34	FOKB	I	Focus OK signal input pin
35	FDCTL	I	PLL frequency detect control input pin
36	LDONB	O	Laser diode ON signal output pin
37	DFCT	I	Defect Detection signal input pin
38	MIRR	I	Mirror signal input pin
39	PLLHD	I	PLL hold signal from micom
40	INTO_224	O	Servo interrupt monitor pin
41	PVDD	P	PLL logic block VDD power supply pin
42	PLCK	O	PLCK
43	PLLLOCK	O	Frequency lock detect output (H : Lock L : Unlock)
44	EFMRTD	O	Latched EFM output signal
45	PVSS	P	PLL logic block VSS power supply pin
46	RVCO	I	Resistor pin for VCO GAIN
47	RFD	I	Gain adjust resister for frequence detector
48	RPD	I	Gain adjust resister for phase detector
49	VCTL	I	Control voltage for VCO
50	MAGICO	I	Input for hysteresis control of FD output (for test)
51	EFMOA	I	EFM offset adjustment pin
52	TZCO	O	Tracking zero cross output pin
53	SVDD	P	Servo CPU VDD power supply pin
54	EQCTL	O	EQ control signal
55	EFMI	I	EFM signal for test
56	EFMO	O	EFM signal
57	LPFDVD	I	Asymmetric input signal for DVD
58	LPFCD	I	Asymmetric input signal for CD
59	RFI	I	RF input signal
60	SVSS	P	Servo CPU VSS power supply pin
61	AVSS	P	Analog block VSS power supply pin
62	SME	I	Spindle error input pin
63	VREF	I	Reference voltage input pin
64	TE	I	Tracking error signal input pin

PIN NAME		I/O	FUNCTION
65	FE	I	Focus error signal input pin
66	ENV	I	RF envelope input pin
67	TILTI	I	Tilt in (reserved)
68	AVDD	P	Analog block VDD power supply pin
69	TILTO	O	Tilt out (reserved)
70	DVCTL	O	Depth variation control signal output pin
71	TBAL	O	Tracking balance signal output pin
72	FBAL	O	Focus balance signal output pin

PIN NAME		I/O	FUNCTION
73	SLD	O	Sled motor drive signal output pin
74	SPD	O	Spindle motor drive signal output pin
75	FOD	O	Focus actuator drive signal output pin
76	TRD	O	Tracking actuator drive signal output pin
77	TZCA	I	TE signal for tracking zero cross input pin
78	MDOUT0	O	Mode data 0 out controlled by micom
79	MDOUT1	O	Mode data 1 out controlled by micom
80	MDOUT2	O	Mode data 2 out controlled by micom

1-1-4 DIC1 (KS1453 ; DVD Data Processor)



PIN	NAME	FUNCTION
1	DVSS	Digital GND (0V)
2	ZCS_IN	Chip select (Active Low)
3	MRZA_IN	Micom register select (L -> Register H -> Data)
4	DVSS	Digital GND (0V)
5	MDAT7_BI	Micom data bus
6	MDAT6_BI	Micom data bus
7	MDAT5_BI	Micom data bus
8	MDAT4_BI	Micom data bus
9	MDAT3_BI	Micom data bus
10	MDAT2_BI	Micom data bus
11	MDAT1_BI	Micom data bus
12	MDAT0_BI	Micom data bus
13	DVDD	Digital power (+5V)
14	XTI_IN	System clock input for 26.16 MHz
15	XTO_OUT	System clock output for 26.16 MHz
16	DVSS	Digital GND (0V)
17	DD15_BI	DRAM data bus
18	DD0_BI	DRAM data bus
19	DD14_BI	DRAM data bus
20	DD1_BI	DRAM data bus
21	DVSS	Digital GND (0V)
22	DD13_BI	DRAM data bus
23	DD2_BI	DRAM data bus
24	DD12_BI	DRAM data bus
25	DD3_BI	DRAM data bus
26	DVDD	Digital power (+5V)
27	DD11_BI	DRAM data bus
28	DD4_BI	DRAM data bus
29	DD10_BI	DRAM data bus
30	DD5_BI	DRAM data bus
31	DVSS	Digital GND (0V)
32	DD9_BI	DRAM data bus

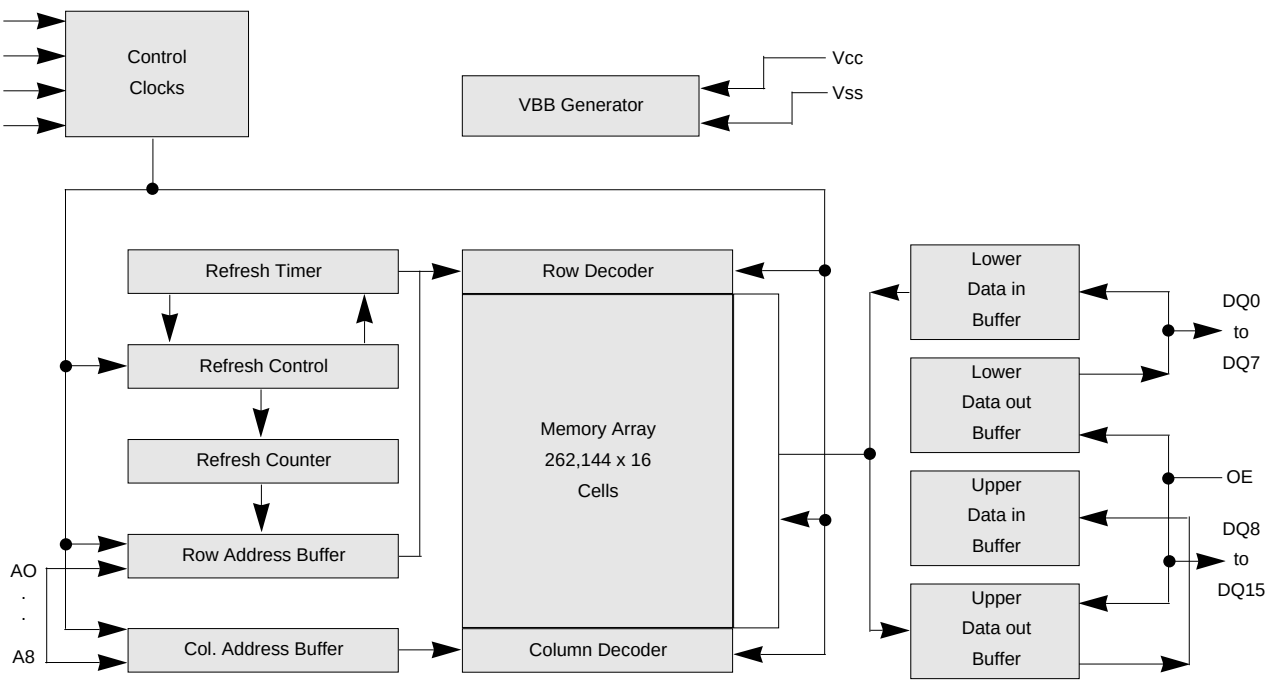
PIN	NAME	FUNCTION
33	DD6_BI	DRAM data bus
34	DD8_BI	DRAM data bus
35	DD7_BI	DRAM data bus
36	DVSS	Digital GND (0V)
37	ZLCAS_OUT	DRAM row column address strobe
38	ZUCAS_OUT	DRAM upper column address strobe
39	ZWE1_OUT	DRAM write enable 1 (8M ONLY)
40	ZWE0_OUT	DRAM write enable 0 (4M, 8M, 16M)
41	ZOE1_OUT	DRAM output enable 1 (16M, -------, 16M)
42	DVDD	Digital power (+5V)
43	ZOEO_OUT	DRAM output enable 0
44	ZRAS_OUT	DRAM row address strobe
45	DADR8_OUT	DRAM address bus
46	DADR7_OUT	DRAM address bus
47	DVSS	Digital GND (0V)
48	DADR0_OUT	DRAM address bus
49	DADR6_OUT	DRAM address bus
50	DADR1_OUT	DRAM address bus
51	DADR5_OUT	DRAM address bus
52	DADR2_OUT	DRAM address bus
53	DADR4_OUT	DRAM address bus
54	DADR3_OUT	DRAM address bus
55	DVSS	Digital GND (0V)
56	DVSS	Digital GND (0V)
57	TOS_OUT	Top of sector
58	DATACK_OUT	Data acknowledge signal output
59	DVDD	Digital power (+5V)
60	SDATA0_OUT	DVD data/CD data bitstream output
61	SDATA1_OUT	DVD data/CD data L/R clock (LRCK)
62	SDATA2_OUT	DVD data/CD data bit clock (BLCK)
63	SDATA3_OUT	DVD data/CD data error flag (C2P0)
64	SDATA4_OUT	DVD data/Sub code serial data (SQDT)
65	SDATA5_OUT	DVD data/Sub code frame sink (WFSY)

PIN	NAME	FUNCTION
66	SDATA6_OUT	DVD data/Sub code block sink (S0S1)
67	SDATA7_BI	DVD data/Sub code serial clock (SQCK)
68	DVSS	Digital GND (0V)
69	CSTROBE_OUT	Data strobe (clock) output
70	DATREQ_IN	Data request from A/V decoder or ROM decoder
71	DTER_OUT	DVD data error output
72	DVSS	Digital GND (0V)
73	PWM07_OUT	PWM output signal
74	PWM06_OUT	PWM output signal
75	PWM05_OUT	PWM output signal
76	PWM04_OUT	PWM output signal
77	DVDD	Digital power (+5V)
78	PWM03_OUT	PWM output signal
79	PWM02_OUT	PWM output signal
80	PWM01_OUT	PWM output signal
81	PWM00_OUT	PWM output signal
82	DVSS	Digital GND (0V)
83	DVSS	Digital GND (0V)
84	DVSS	Digital GND (0V)
85	DVDD	Digital power (+5V)
86	DVDD	Digital power (+5V)
87	DVSS	Digital GND (0V)
88	DVSS	Digital GND (0V)
89	DVSS	Digital GND (0V)
90	DVSS	Digital GND (0V)
91	FRSYZ_OUT	Frame sync out
92	TX_OUT	Digital out
93	GFS_OUT	Good frame sync detection result output ("H" active)
94	DVSS	Digital GND (0V)
95	CK33MI_IN	System clock input for 33.8688MHz
96	CK33MO_OUT	System clock output for 33.8688MHz
97	DVSS	Digital GND (+5V)

PIN	NAME	FUNCTION
98	TEST0_IN	Test mode setting port
99	TEST1_IN	Test mode setting port
100	TEST2_IN	Test mode setting port
101	EFMO_OUT	EFM out
102	WFCK_OUT	Write frame pulse
103	RFCK_OUT	Reference frame pulse
104	PLCK_IN	Phase locked clock
105	DVSS	Digital GND (0V)
106	PLLLOCK_OUT	Lock signal for PLL
107	CLVLOCK_OUT	Lock signal for CLV
108	SERLOCK_OUT	Lock signal for SERVO
109	MDP_OUT	Spindle motor phase control signal (3-state)
110	MDS_OUT	Spindle motor speed control signal (3-state)
111	DVSS	Digital GND (0V)
112	DVSS	Digital GND (0V)
113	MON_OUT	Spindle motor ON/OFF control output
114	FG_IN	Reference signal for CAV
115	FSW_OUT	Spindle motor output filter conversion output (3-state)
116	EFMI_IN	EFM/EFM+ signal input
117	DVDD	Digital power (+5V)
118	DVDD	Digital power (+5V)
119	DVDD	Digital power (+5V)
120	CK16M_OUT	2Ì¬¡÷ clock of CK33M/16.934MHz
121	DEMPHA_OUT	When DEEMPHASIS is ON, "HIGH".
122	BCARZ_IN	BCA input signal
123	DVSS	Digital GND (0V)
124	ZRST_IN	Hardware reset active low
125	ZWAIT_OUT	Micom read/write access wait ("L" wait)
126	ZIRQZD_OUT	Interrupt request from micom
127	MRD_IN	Micom read strobe (schmidt trigger)
128	MWR_IN	Micom write strobe (schmidt trigger)

1-1-5 DIC2 (KM416C254BJ-6 ; CMOS DRAM)

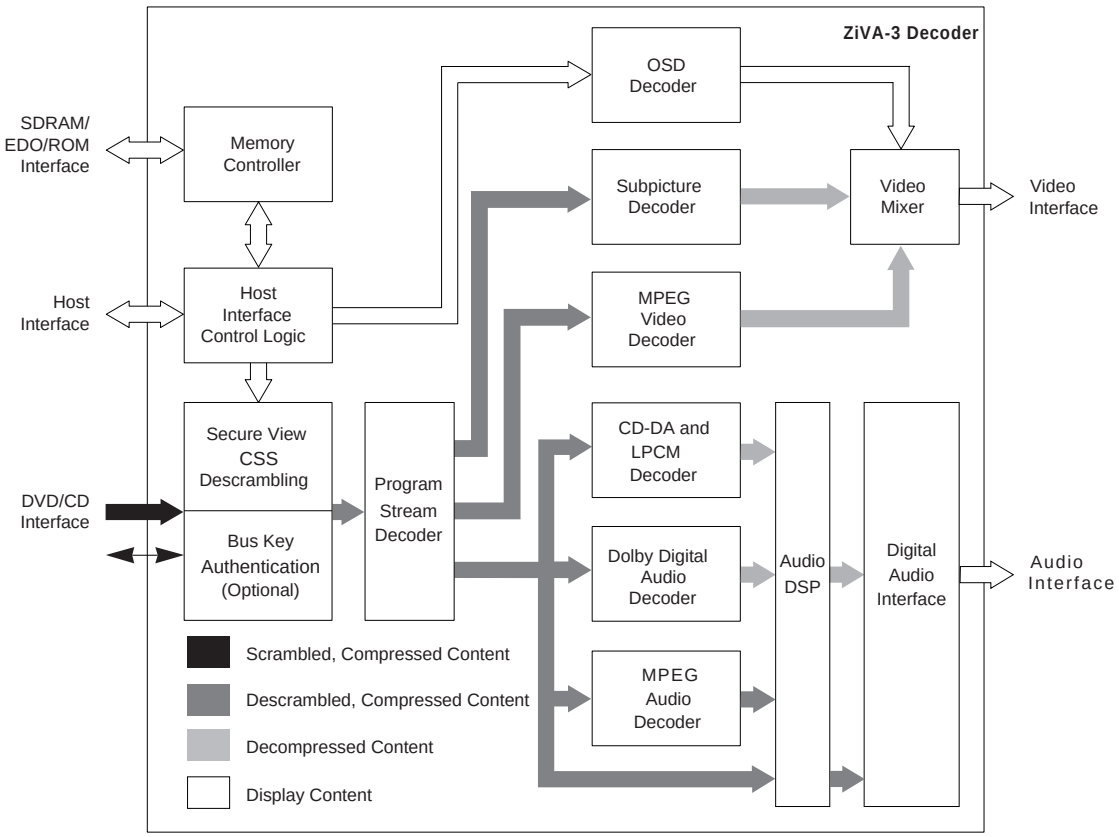
BLOCK DIAGRAM



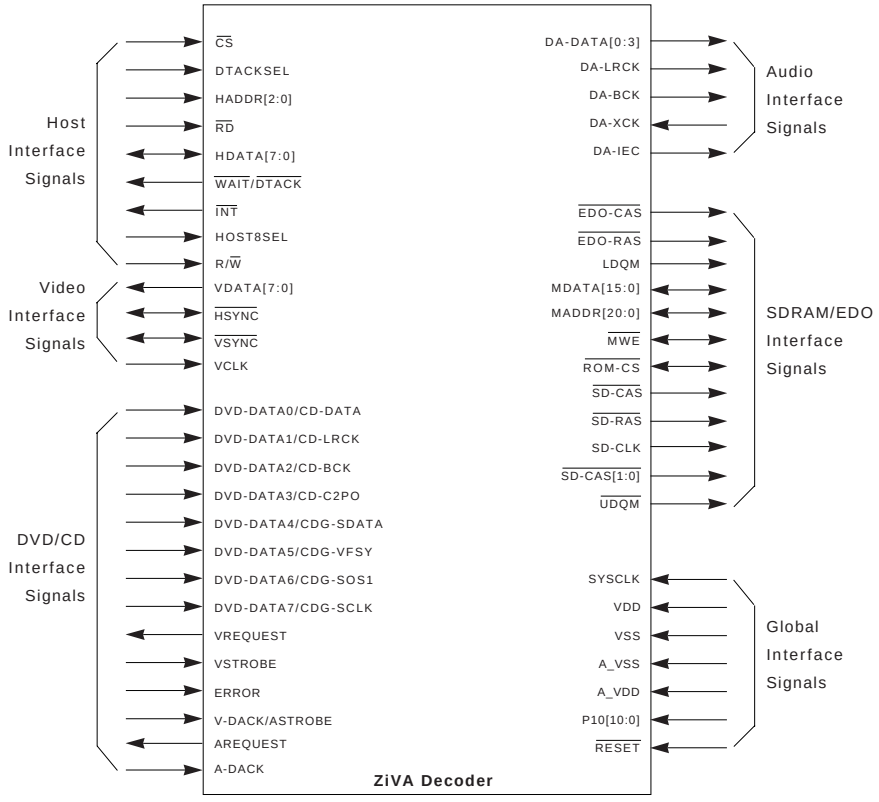
NAME	FUNCTION
A0-A8	Address Inputs
DQ0-15	Data in/Out
VSS	Ground
$\overline{RAS}$	Row Address Strobe
$\overline{UCAS}$	Upper Column Address Strobe
$\overline{LCAS}$	Lower Column Address Strobe
$\overline{W}$	Read/Write Input
$\overline{OE}$	Data Output Enable
V_{CC}	Power (+5V)
	Power (+3.3V)
N.C	No Connection

1-1-6 VIC1 (ZiVA-3 ; Audio/Video Decoder)

BLOCK DIAGRAM

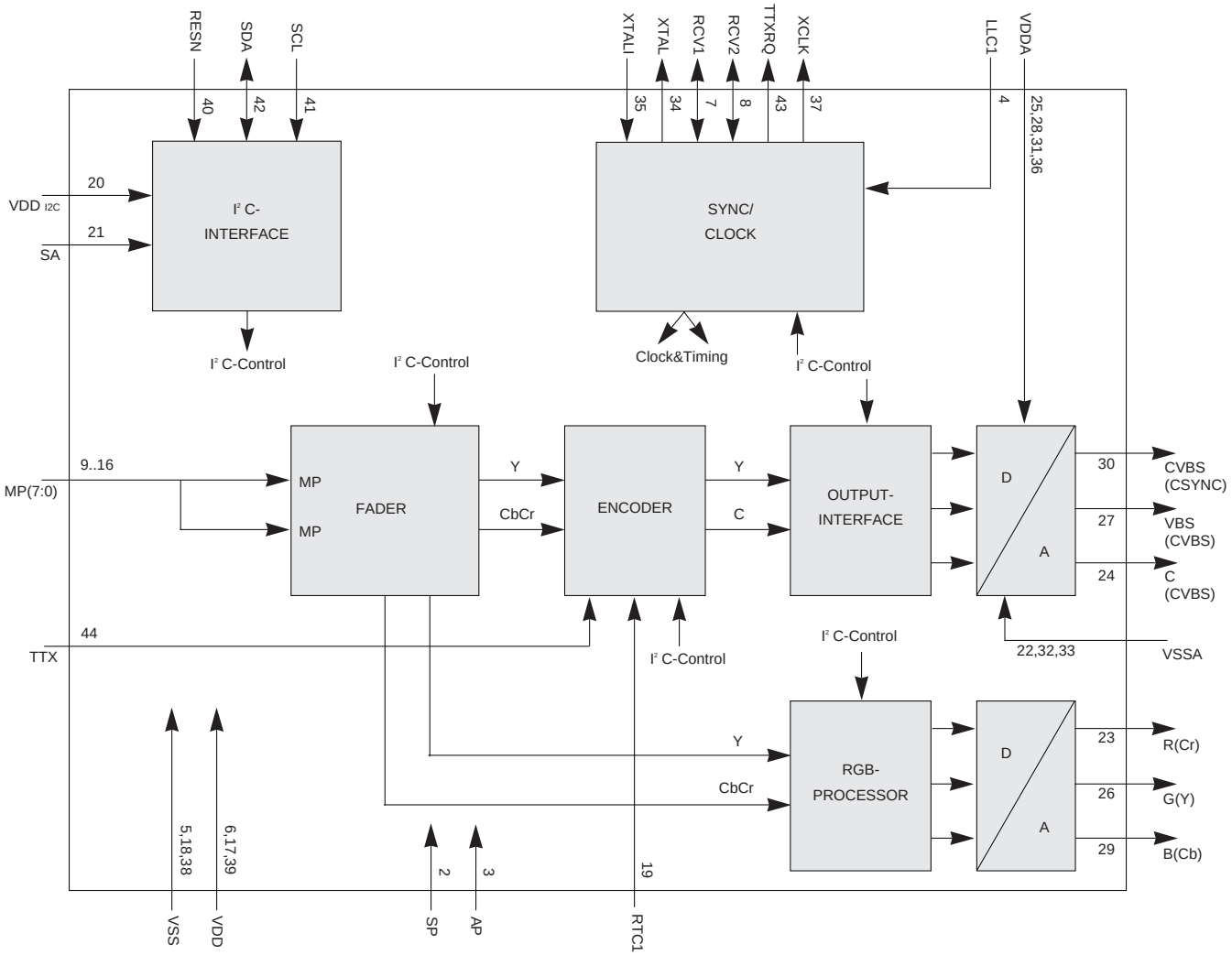


LOGIC DIAGRAM



1-1-7 VIC50 (SAA7128 ; Digital Video Encoder)

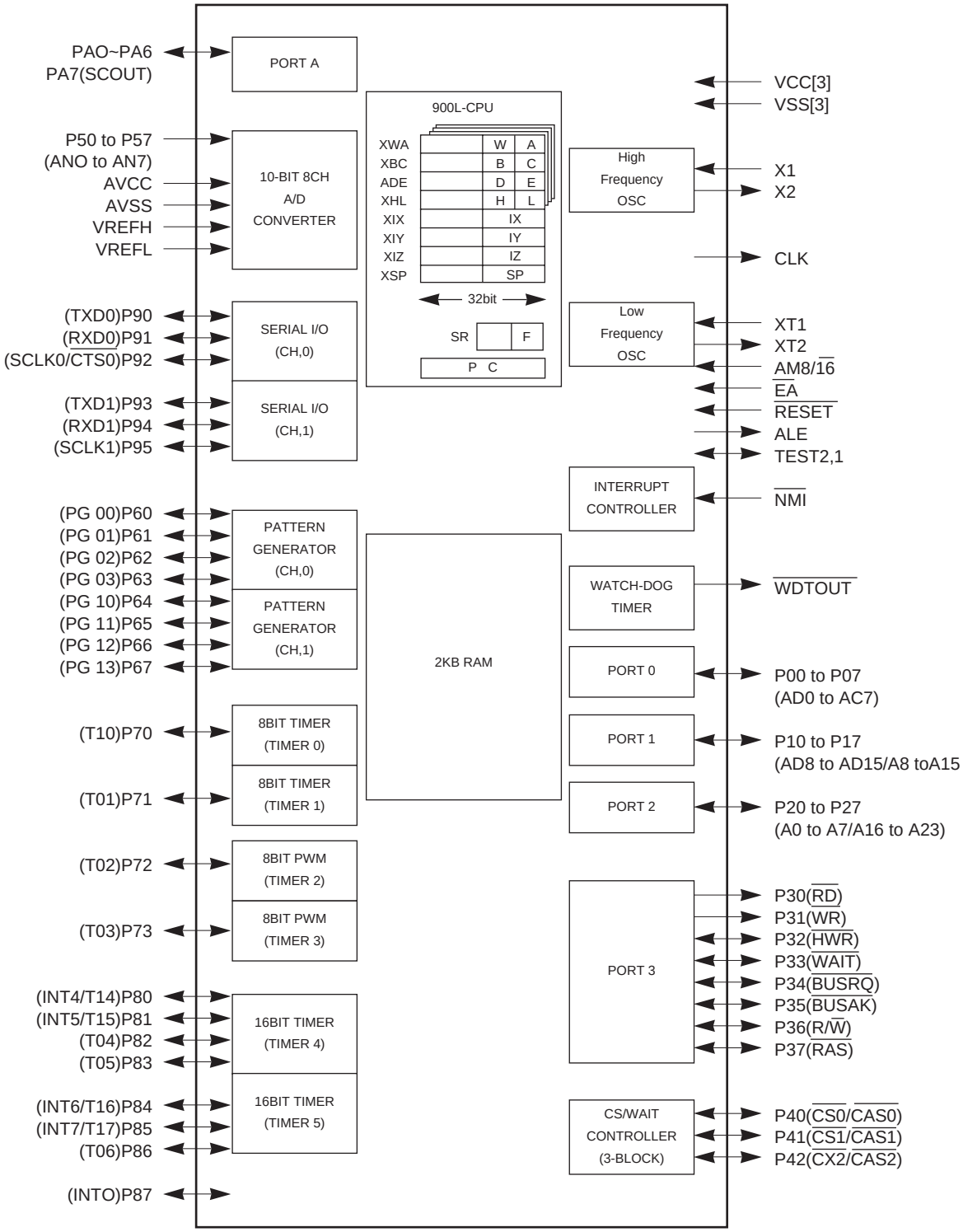
BLOCK DIAGRAM



PIN	I/O	NAME	FUNCTION
1		res.	Reserved pin, do not connect
2	I	SP	Test Pin;connected to digital ground for normal operation
3	I	AP	Test Pin;connected to digital ground for normal operation
4	I	LLC1	Line-Locked Clock input;this is the 27 MHz master clock
5	I	V_{SS1}	Digital supply ground 1
6	I	V_{DD1}	Digital supply 1
7	I/O	RCV1	Raster Contral 1 for video port. This pin receives/provides a VS/FS/FSEQ signal.
8	I/O	RCV2	Raster Contral 2 for video port. This pin provides an HS pulse of programmable length or receives an HS pulse.

PIN	I/O	NAME	FUNCTION
9	I	MP7	Double speed 54 MHzMPEG port. It is an input for "CCIR 656" style multiplexed Cb, Y, Cr data. Data are sampled on the rising and falling clock edge;data sampled on the risting edge then are sent to the encoding part of the device, data sampled on the falling edge are sent to the RGB part of the device. (or vice verse, depending on programming)
10	I	MP6	
11	I	MP5	
12	I	MP4	
13	I	MP3	
14	I	MP2	
15	I	MP1	
16	I	MP0	
17	I	V_{DD2}	Digital supply voltage 2
18	I	V_{SS2}	Digital ground 2
19	I	RTCI	Real Time Control input. If the LLC1 clock is provided by an SAA7111 or SAA7151B, RTCI should be connected to the RTCO pin of the respective decoder to improve the signal quality.
20	I	VDD_{12C}	Sense input for 12C bus voltage;connect to 12C bus supply
21	I	SA	Select 12C address; low selects slave address 88h, high selects slave address 8Ch.
22	I	V_{SSA1}	Analog ground 1 for Red (Cr), C(CVBS), Green(Y) outputs
23	O	R(Cr)	Analog output of Red (Cr)signal
24	O	C	Analog output of Chrominance (CVBS) signal
25	I	V_{DDA1}	Analog supply voltage 1 for R(Cr), C(CVBS) outputs
26	O	G(Y)	Analog output of Green(Y) signal
27	O	VBS	Analog output of VBS (CVBS) signal
28	I	V_{DDA2}	Analog supply voltage 2 for VBS(CVBS), Green(Y) outputs
29	O	B(Cb)	Analog output of Blue(Cb) signal
30	O	CVBS	Analog output of CVBS(CSYNC) signal
31	I	V_{DDA3}	Analog supply voltage 3 for Blue(Cb)and CVBS(CSYNC), outputs
32	I	V_{SSA2}	Analog ground 2 for VBS (CVBS), Blue(Cb), CVBS(CSYNC)outputs
33	I	V_{SSA3}	Analog ground 3 for the DAC reference ladder and the oscillator
34	O	XTAL	Crystal oscillator output
35	I	XTAL1	Crystal oscillator input; if the oscillator is not used, this pin should be connected to ground.
36	I	V_{DDA4}	Analog supply voltage 4 for the DAC reference ladder and the oscillator
37	O	XCLK	Clock output of the crystal oscillator
38	I	V_{SS3}	Digital supply ground 3
39	I	V_{DD3}	Digital supply 3
40	I	RESN	Reset input, active LOW. After reset is applied, all digital I/Os are in input mode; PAL-Blackburst on CVBS, VBS and C;RGB outputs set to lowest voltage. The 12C-bus receiver waits for the START condition.
41	I	SCL	12C serial clock input
42	I/O	SDA	12C serial data input/output
43	O	TTXRQ	Teletext Request output, indicating when text bits are requested
44	I	TTX	Teletext bit stream input

1-1-8 MIC1 (TMP93CM41F ; Main Micom)



No	PORT NAME	ASSIGNED NAME	I/O	FUNCTION
1	VREFL	GND	I	A/D Ref input (L)
2	AVss	AGND	-	A/D GND input
3	AVcc	AVCC	-	A/D VCC input
4	/NMI	-	I	Non-maskable interrupt
5	P70	ZRST	O	DSP H/W reset
6	P71	MCK_SEL	O	Master clock select
7	P72	ZIVA_RST	O	AV-DEC H/W reset
8	P73	LED	O	Open/close blinking
9	/INT4	DVDINT	I	Interrupt from AV-DEC
10	INT5	SRQ	I	Interrupt from front micom
11	P82	OPEN	I	Open switch
12	P83	CLOSE	I	Close switch
13	/INT6	FGINT	I	Interrupt from spindle motor FG
14	INT7	-	I	
15	P86	RRQ	O	Request to front micom
16	INTO	ZINT	I	Interrupt from DSP
17	TXDO	RXD	O	Serial data output
18	RXDO	TXD	I	Serial data input
19	SCLKO	SCLK	I	Serial data clock
20	TXD1	MD	O	RF control data
21	094	STB	I/O	RF data latch
22	SCLK1	MC	O	RF control clock
23	AM8/16	AM8	I	Address mode (H: 8 bit mode)
24	CLK	CLK	O	Clock output (System clock÷2)
25	Vcc	VCC	-	
26	Vss	GND	-	GND
27	X1	X1	I	High frequency OSC in
28	X2	X2	O	High frequency OSC out
29	/EA	/EA	I	External access CS41/CS40
30	/RESET	/MRST	I	Master reset from FRONT

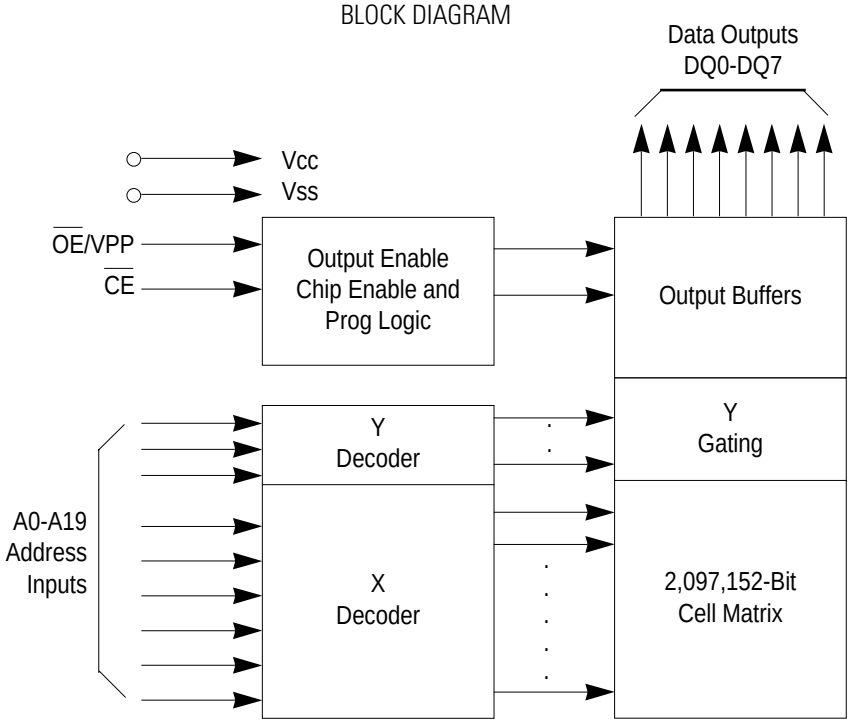
No	PORT NAME	ASSIGNED NAME	I/O	FUNCTION
31	P96	XT1	O	-
32	P97	XT2	O	-
33	TEST1	TEST1	-	Test pin. connect to TEST2
34	TEST2	TEST2	-	Test pin. connect to TEST1
35	PA0	ECK	O	EEPROM CLOCK
36	PA1	EDT	I/O	EEPROM DATA I/O
37	PA2	EWC	O	EEPROM WRITE PROTECT
38	PA3	-	O	
39	PA4	-	O	
40	PA5	-	O	
41	PA6	-	O	
42	PA7	-	O	
43	ALE	ALE	O	Address latch enable
44	Vcc	VCC	-	
45	AD0	HAD0	I/O	Address/Data 0
46	AD1	HAD1	I/O	Address/Data 1
47	AD2	HAD2	I/O	Address/Data 2
48	AD3	HAD3	I/O	Address/Data 3
49	AD4	HAD4	I/O	Address/Data 4
50	AD5	HAD5	I/O	Address/Data 5
51	AD6	HAD6	I/O	Address/Data 6
52	AD7	HAD7	I/O	Address/Data 7
53	A8	HA8	O	Address 8
54	A9	HA9	O	Address 9
55	A10	HA10	O	Address 10
56	A11	HA11	O	Address 11
57	A12	HA12	O	Address 12
58	A13	HA13	O	Address 13
59	A14	HA14	O	Address 14
60	A15	HA15	O	Address 15

No	PORT NAME	ASSIGNED NAME	I/O	FUNCTION
61	/WDTOUT	WDTOUT	O	Watch dog timer output
62	VSS	GND	-	
63	Vcc	VCC	-	
64	A16	HA16	O	Address 16
65	A17	HA17	O	Address 17 (AV-DECODER)
66	A18	HA18	O	Address 18 (Data processor)
67	A19	HA19	O	Address 19
68	A20	HA20	O	Address 20 (D. SERVO)
69	A21	HA21	O	Address 21
70	A22	HA22	O	Address 22
71	A23	HA23	O	Address 23
72	/RD	/RD	O	/Read strobe
73	/WR	/WR	O	/Write strobe
74	P32	-	I/O	
75	/WAIT	/MWAIT	I	/Wait
76	P34	RCODE	I/O	
77	P35	-	I/O	
78	P36	-	O	
79	P37	-	I/O	
80	P40/CS0	-	O	
81	/CS1	/CS1	-	Chip select 1 (SRAM, 1M Bit, 128KB)

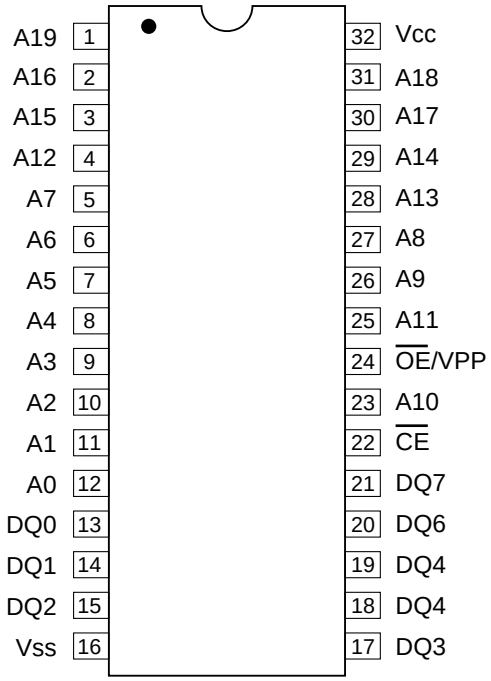
No	PORT NAME	ASSIGNED NAME	I/O	FUNCTION
82	/CS2	/CS2	O	Chip slect 2 (EPROM, 4M Bit, 512KB)
83	P60	-	I/O	
84	P61	TRAY-IN	O	Tray in control output
85	P62	TRAY-OUT	O	Tray out control output
86	P63	SCL	O	IIC clock (VIDEO ENCODER)
87	P64	SDA	I/O	IIC clock (VIDEO ENCODER)
88	P65	DAB	O	D.Servo IC data/Address select
89	P66	CSB	O	D.Servo IC chip select
90	P67	RSTB	O	D.Servo IC reset
91	Vss	GND	-	
92	P50	SLOCK		LOCK monitor from DSP
93	P51	TILTO	I	Monitor signal
94	P52	FR	I	Spindle direction from SP driver
95	P53	SENSE	I	SENSE monitor from SERVO
96	P54	FOKB	I	Focus lock monitor from RF
97	P55	RFRP1	I	Tracking lock monitor from SERVO
98	P56	RFO	I	RF sum signal
99	P57	VREFO	I	
100	VREFH	AVCC	I	A/D Ref input (H)

1-1-9 MIC8 (M27C801 ; 8MB (1M x 8-bit) CMOS EPROM)

BLOCK DIAGRAM



TOP VIEW



NAME	FUNCTION
A0-A19	Address Inputs
$\overline{CE}$	Chip Enable Input
DQ0-DQ7	Data Input/Outputs
$\overline{OE}$	Output Enable Input
Vcc	Vcc Syply Voltage
Vss	Ground

3. Disassembly and Reassembly

3-1 Cabinet-Top

*** If power is connected ;**

1. Turn power on and open the CD - TRAY ,push the Door-CD in the direction of arrow A to remove.
2. Close the CD - TRAY and turn power off, and remove the power plug(cord) from main power
3. Remove 5 screws of ! holding the Cabinet-Top in the direction of arrow B.
   Lift the back of the Cabinet-Top and shade it to the rear to remove.
4. Remove 12 screws of @ holding the Cabinet-Top in the direction of arrow C.

*** If power is not connected ;**

1. Remove 5 screws of ! holding the Cabinet-Top in the direction of arrow B.
   Lift the back of the Cabinet-Top and shade it to the rear to remove.
2. Remove 12 screws of @ holding the Cabinet-Top in the direction of arrow C.
3. Remove the Cabinet-Top and Turn the Gear the clockwise using the hand as shown in figure 3-1-1.
   Open the Door-CD and pull the Tray in the direction of arrow @ as shown in figure 3-1-1.

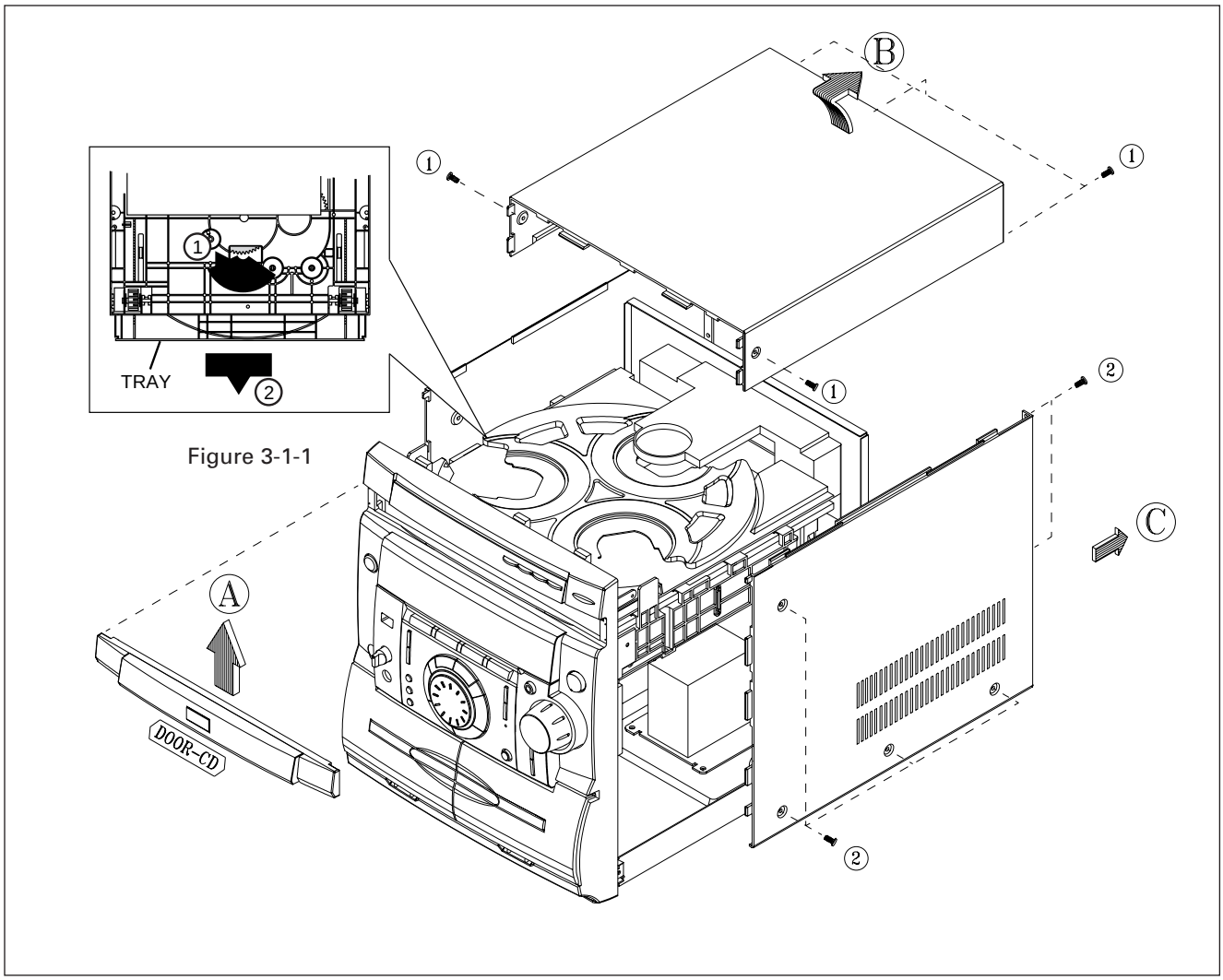


Figure 3-1-1

Figure 3-1

3-2 CD-Mecha, Door-CD

1. Remove 2 screws of # .
2. Lift the back of the CD-Mecha to remove.

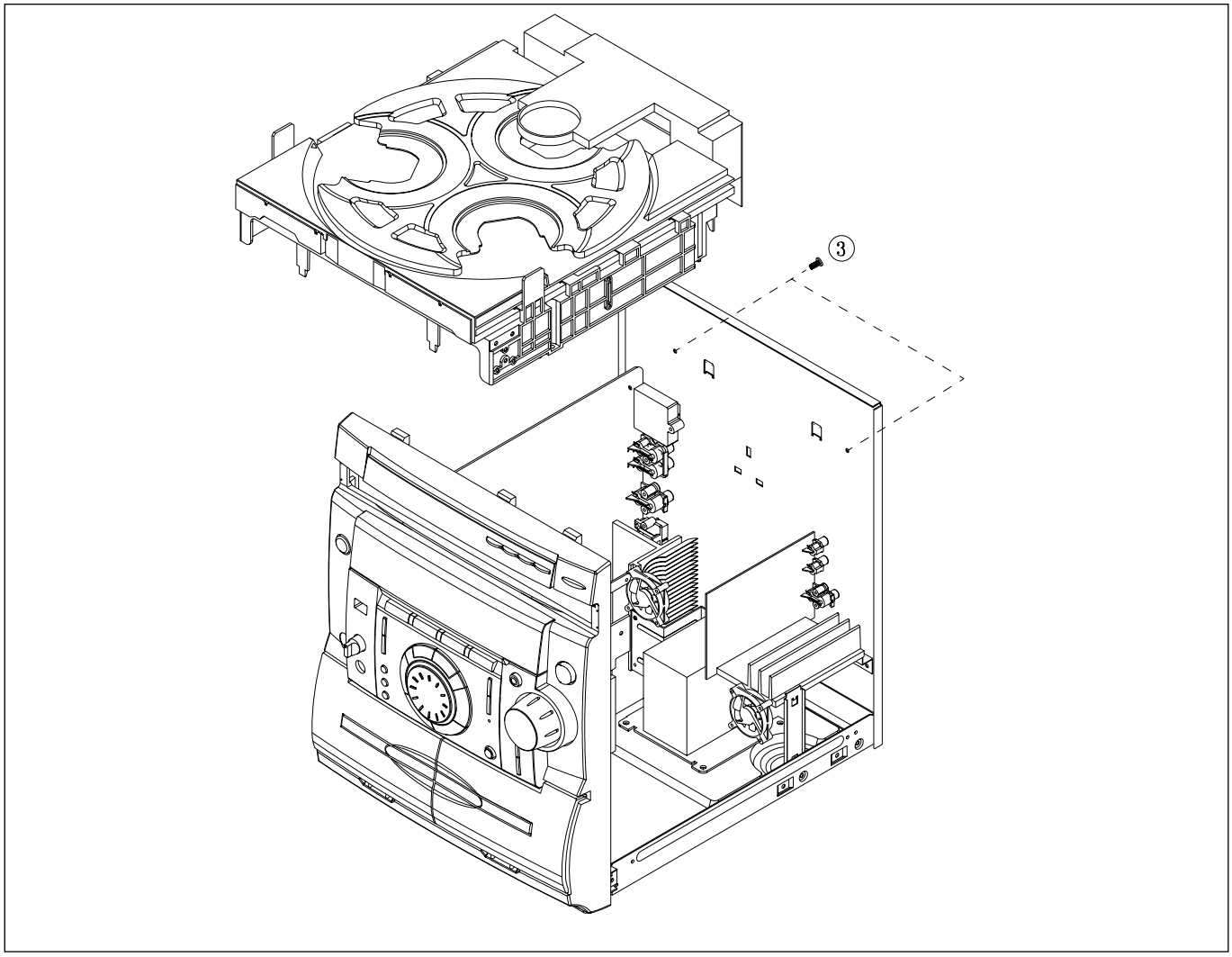


Figure 3-2

3-3 Cabinet-Rear and Main PCB

1. Remove 19 screws of $.
2. Lift the Cabinet-Rear in the direction of arrow B and slide it to the rear by releasing the hook of Cabinet-Bottom.
3. Remove 1 screws of % and slide the Main PCB to the rear to remove.

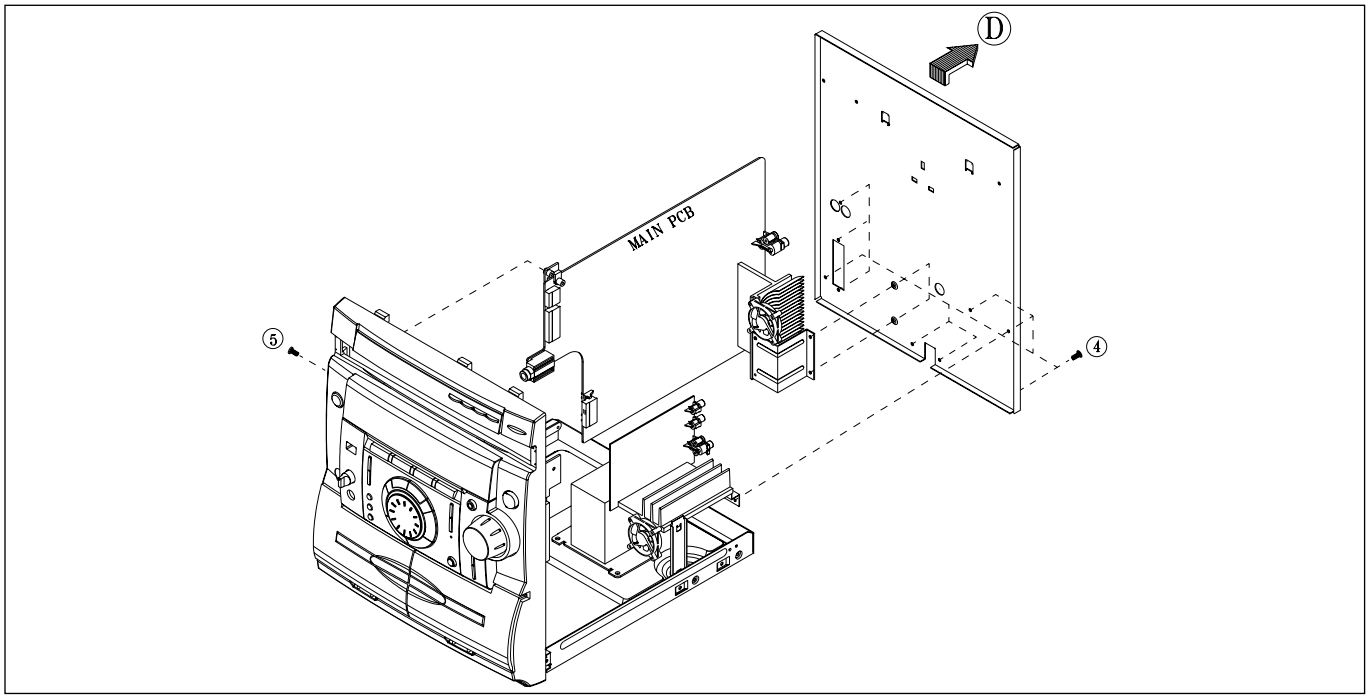


Figure 3-3

3-4 Cabinet-Front and Cabinet-Bottom

1. Remove 2 screws of ^ .
2. Slide it to the front by releasing two hooks in the direction of arrow E,F on the bottom of Cabinet-Front to remove.
3. Remove 1 screws of & and slide the PRO-LOGIC PCB to the top to remove .

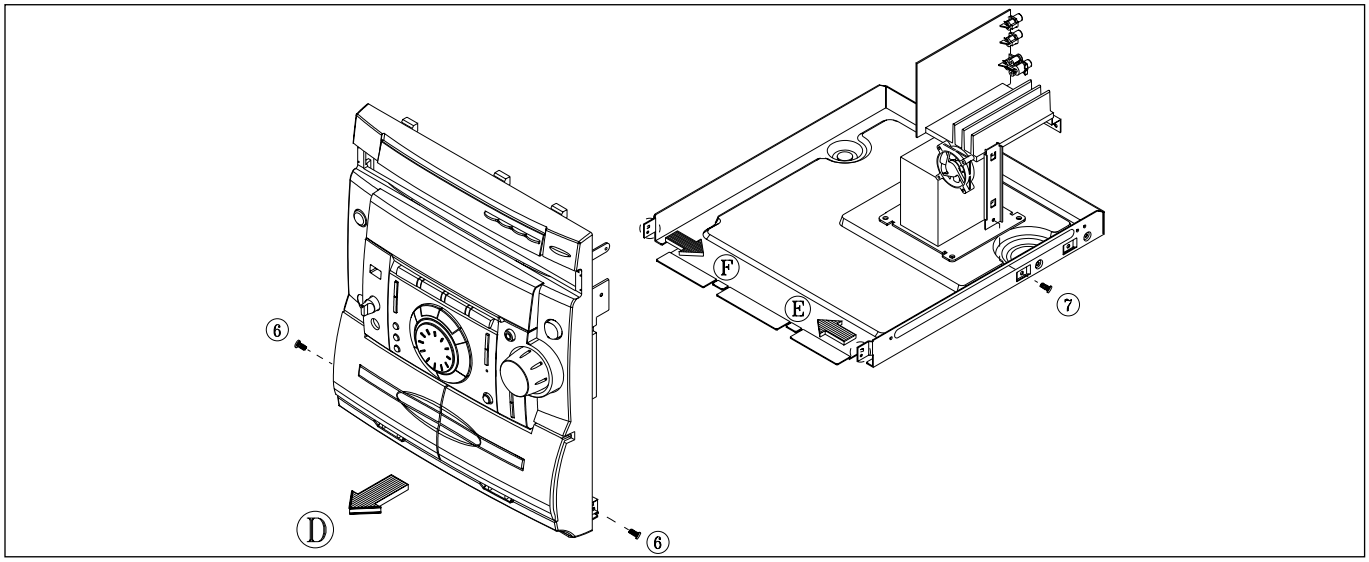


Figure 3-4

3-5 Pick-up disassembly and reassembly

3-5-1 Disassembly

1) Remove the power cable.
2) Switch LD SW1 on deck PCB to 'OFF' before removing the FPC
   (Inserted into Main PCB CN6. See Fig. 1-4)
3) Disassemble the deck.
4) Disassemble the deck PCB.

3-5-2 Assembly

1) Replace the Pick-up.
2) Assemble the deck PCB.
3) Reassemble the deck.
4) Switch LD SW1 on deck PCB to 'ON' and insert FPC into Main PCB CN6 (See Fig 1-4).

Note : If the assembly and disassembly are not done in correct sequence, the Pick-up may be damaged.

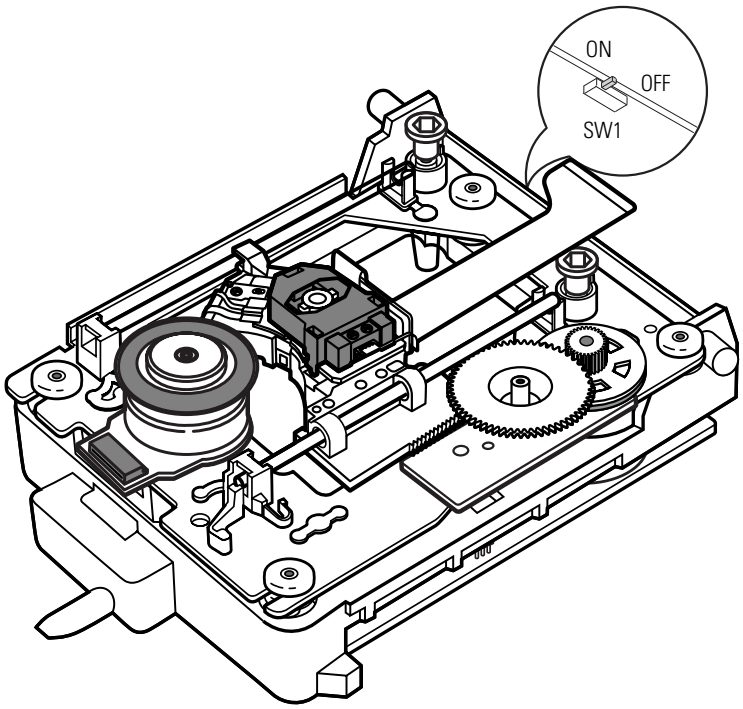


Fig. 1-4

2. Alignment and Adjustments

2-1 Tuner

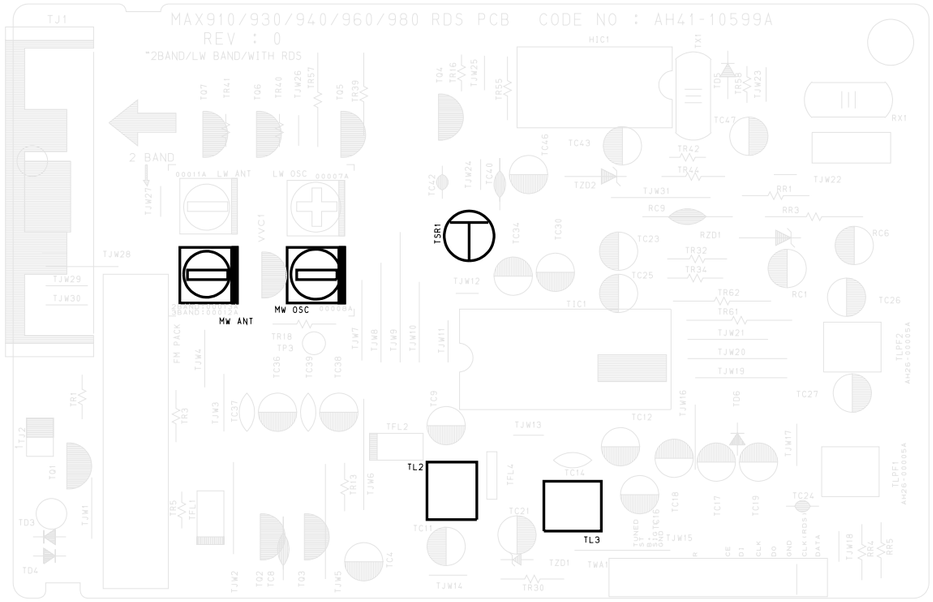


Fig2-1. Adjustment location of Tuner Part

FM Search Level Adjustment	
SSG FREQ.	98 MHz
Adjustment point (TSR1)	BEACON SENSITIVITY SEMI-VR(10KΩ)
Output	1kHz 28dB
Adjust IVR1 so that "TUNED" of FLT is lighted (Figure 2-3)	
4Gain : 20dB(CE standard)	

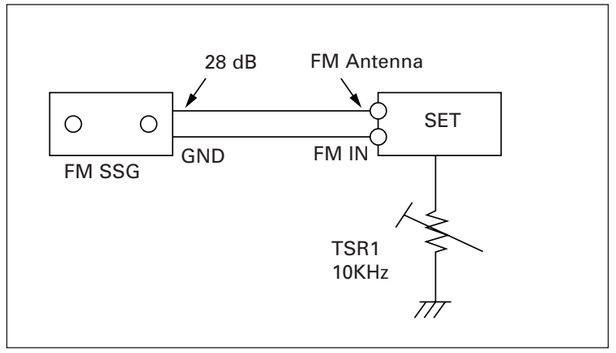


Figure2-3 FM Auto Search Level Adjustment

AM(MW) I.F Adjustment	
SSG FREQ.	450 kHz
Frequency	522 kHz
Adjustment point (TL2)	AM I.F COIL
Maximum output (Figure 2-4)	

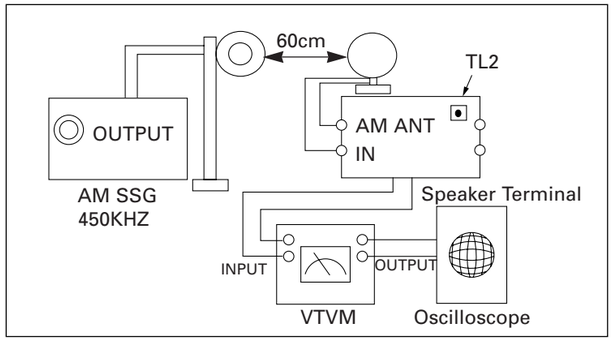


Figure2-4 AM I.F Adjustment

* When adjusting T.H.D., readjust I/F coil on the Tuner Pack.

FM THD Adjustment	
SSG FREQ.	98 MHz
Adjustment point (TL3)	FM DETECTOR COIL
Output	60 dB
Minumum Distortion (0.3% below) (Figure 2-2)	

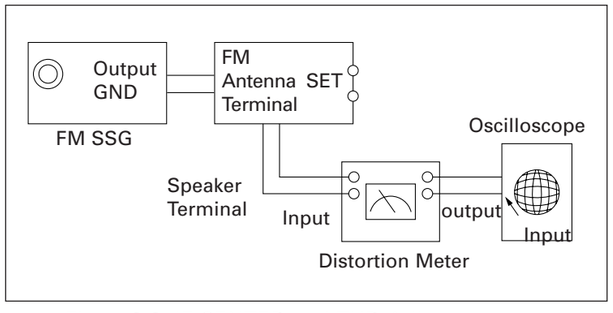


Figure2-2 IF CENTER and THD Adjustment

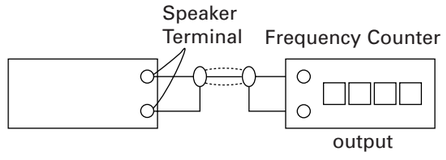


Figure 2-5

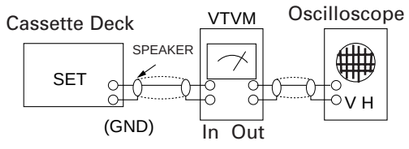


Figure 2-6

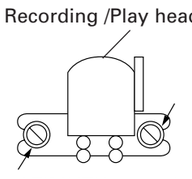


Figure 2-7

2-2 Cassette Deck

2-2-1 To Adjust Tape Speed

Notes
* Measuring tape: i) MTT-111 (or equivalent)
(Tapes recorded with 3kHz)
ii) MTT-5512 (or equivalent)

- Adjust SPEED Control

Step	Item	Tape	Pre-Setup	Adjust Point	Standard	Figure	Remark
1	SPEED Control	MTT-111N (3KHZ)	Press play button after puting tape into the Deck1	UVR2(COMMON)	3 kHZ ±1%	Fig. 2-5	Front PCB
				DVR3(Only MAX909/910/916)	3 kHZ ±1%	Fig. 2-5	Main PCB
2	HI SPEED Control	MTT-111 (3KHZ)		No Adjustment	-	Fig. 2-5	5200~6600Hz Check

- Adjust Record Frequency

Step	Item	Tape	Pre-Setup	Adjust Point	Frequency Range	Figure	Remark
1	L,R Unbalance	MTT-112B (1KHZ)		DVR4	±0.5dB	Fig. 2-6	SPEAKER VTVM (A-DECK)
2	Record Frequency	MTT-5512	Press Rec button after connecting (Fig1-6)	DL4	60KHZ±1KHZ (Only MAX909/910/916) 85KHZ±1KHZ(COMMON)	Fig. 2-6	DCW4

- Adjust Azimuth

Step	Item	Tape	Pre-Setup	Adjust Point	Standard	Figure	Remark
1	Azimuth	MTT-113CN		Adjustment screw of HEAD	8KHZ	Fig. 2-7	Output:Maximum

- Adjust Rec Bias Voltage

Step	Item	Tape	Pre-Setup	Adjust Point	Votage Range	Remark
1	Rec Bias Voltage	MTT-5512 (3KHZ)		SVR1 SVR2	7V±0.5V	Connect to MWF6 from AC Meter.

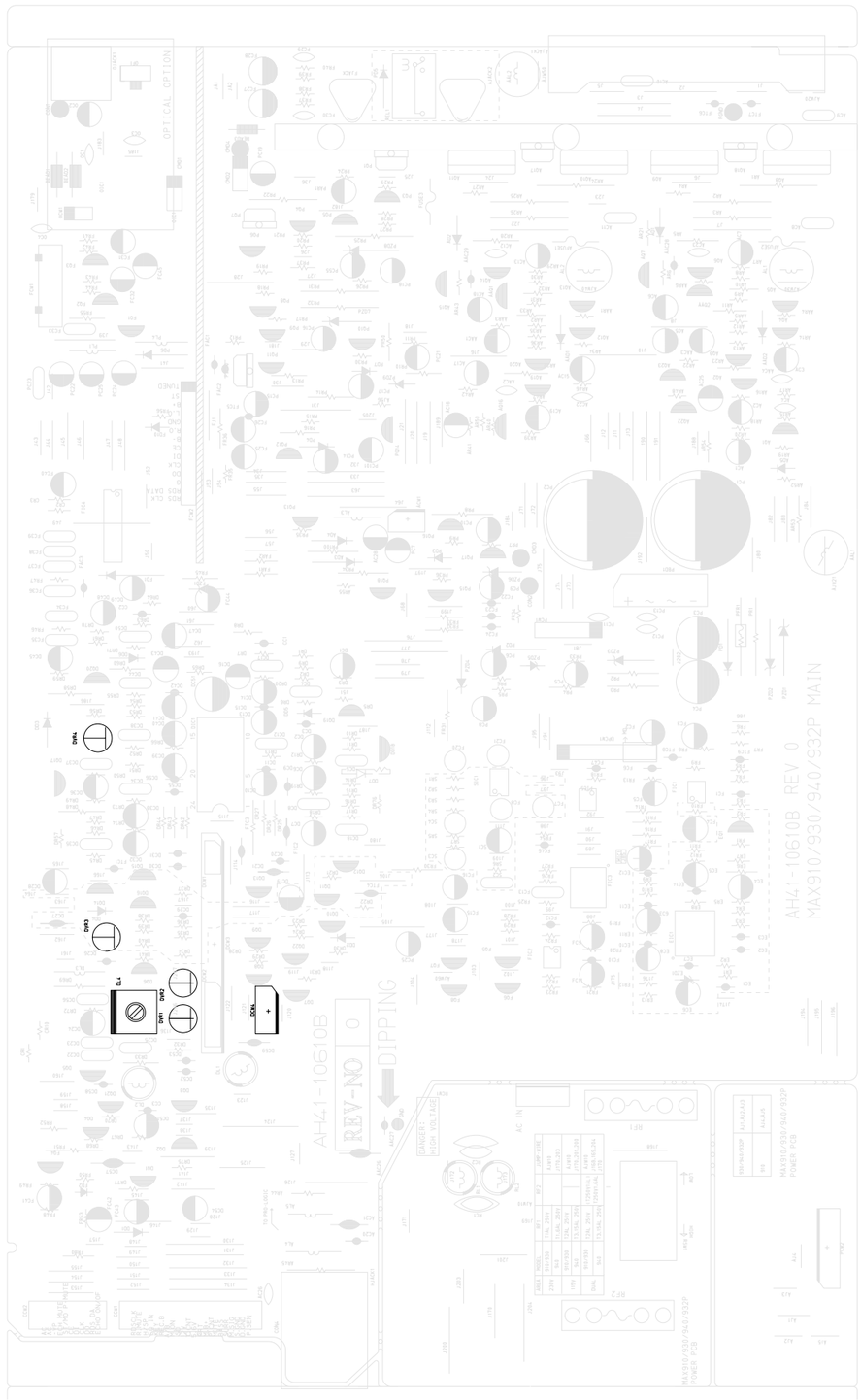


Fig 2-8. Adjustment location of Deck Part

4. Circuit Descriptions

4-1 RF

4-1-1 RIC1 (KS1461)

KS1461 is combined with KS1452 and KS1453 as bipolar IC developed for DVD SERVO system.
Main features include DVD waveform equalizing, CD waveform equalizing, focus error signal generation, 3-beam tracking error signal generation, DPD 1-beam tracking error, defect, envelope, MIRR output, etc. after receiving the pick-up output converted into I/V.

4-2-1 (a) Basic Potentiometer

KS1461 uses a single power method and each circuit is based on V of 2.5V.
V (Pin 12, 20, 24, 67) terminal is needed for IC, which uses the peripheral V.

4-2-1(b) RF signal

Fig. 4-1 shows the flow of signal generated by the pick-up.
A, B, C, D signals detected from pick-up are converted in to RF signal(A+B+C+D) via RF summing AMP.

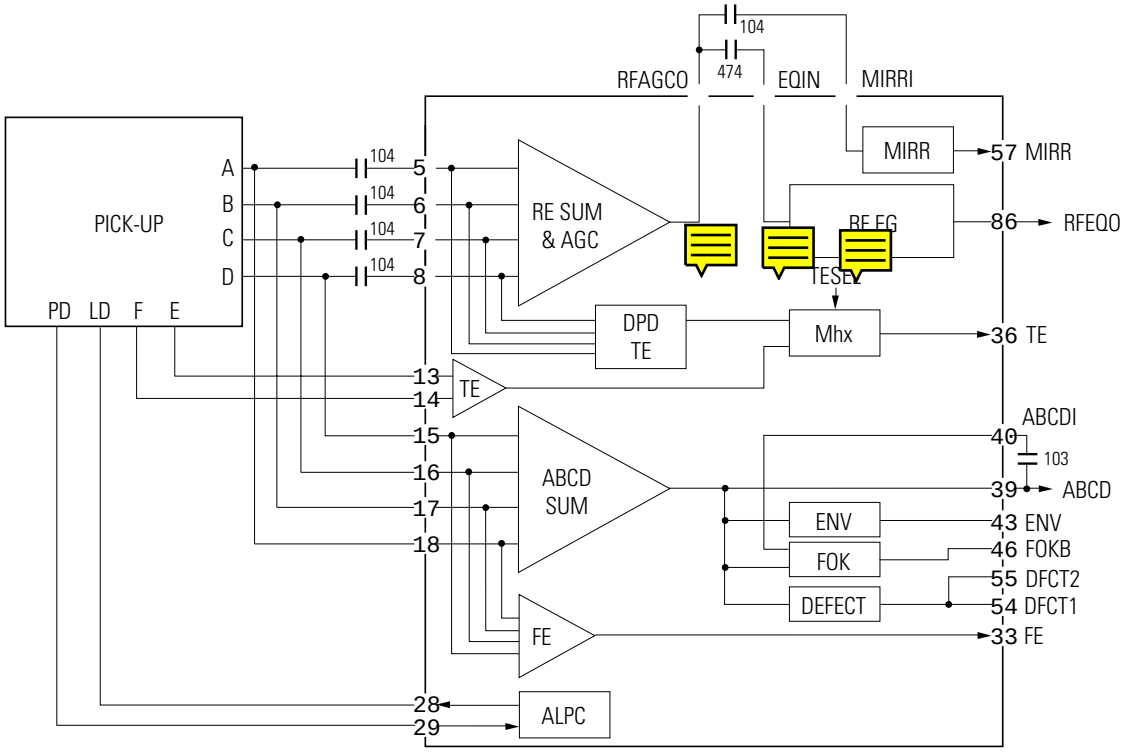


Fig. 4-1

Fig. 4-2 shows the waveform-equalizing block diagram for the RF signal.
It outputs to EQout (Pin 86) terminal by initially changing switching AMP gain of DVD and CD, and then adjusting the level in RF SUM & AGC. It controls RF SUM & AGC gain by means of Pin 89-95 and interfaces with PWM signal, (output from PWM terminal of KS1453, via low-pass filter to adjust boost gain and peak frequency.
EQout terminal is connected with EQin (Pin 86).

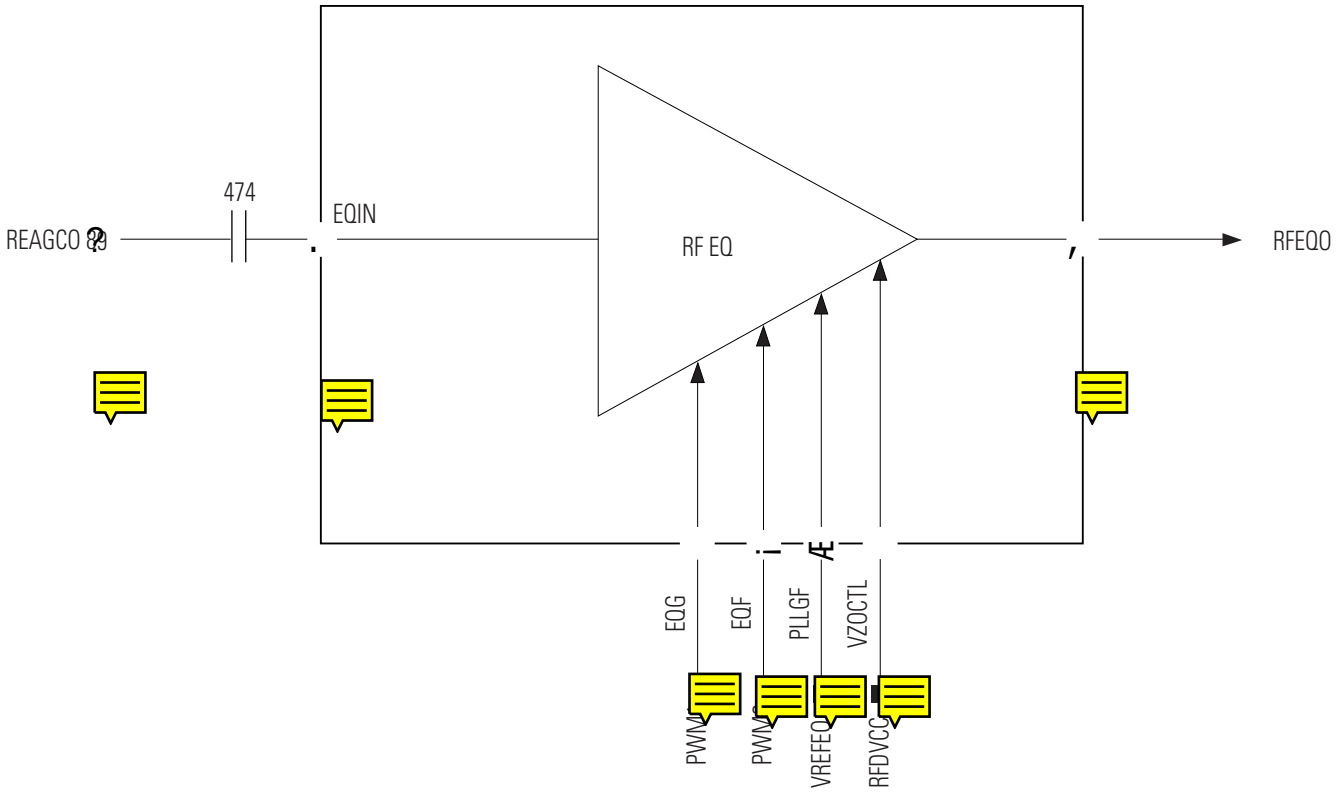


Fig. 4-2

The control parameters of DVD EQ and CD EQ are as follows.

1) DVD CD EQ control parameter

- EQG (Pin 97) : Changes the gain of peak frequency with EQ frequency characteristic. Convert PWM signal, output from KS1453, into DC via low-pass filter.
- EQF (Pin 98) : Changes the peak frequency with EQ frequency characteristic. Convert PWM signal, output from KS1453, into DVD via low-pass filter.

4-2 System Control

4-2-1 Outline

The main micom peripheral circuit is composed of 16bit Micom (MIC1 ; TMP93CM41F), 8M EPROM (MIC8 ; AM27-C080) for Microcode and data save, 512 byte EE-PROM (MIC5 ; KS24C020) for permanent storage of data needed at power off, MIC4 (74AC573) to latch only address in the bus where address and data are mixed, address decoder (MIC7 ; 74HC00) for selection of ex-ternal device chip and 20MHz clock oscillator for micom operation. The Micom (MIC1 ; TMP93CM41F) mounted in main board analizes the key commands of front panel or instructions of remote control through communication with Micom (FIC1 ; LC86P6232) of front and controls the devices on board to execute the corresponding commands after initializing the devices connected with micom on board at power on.

4-2-2 Block Diagram

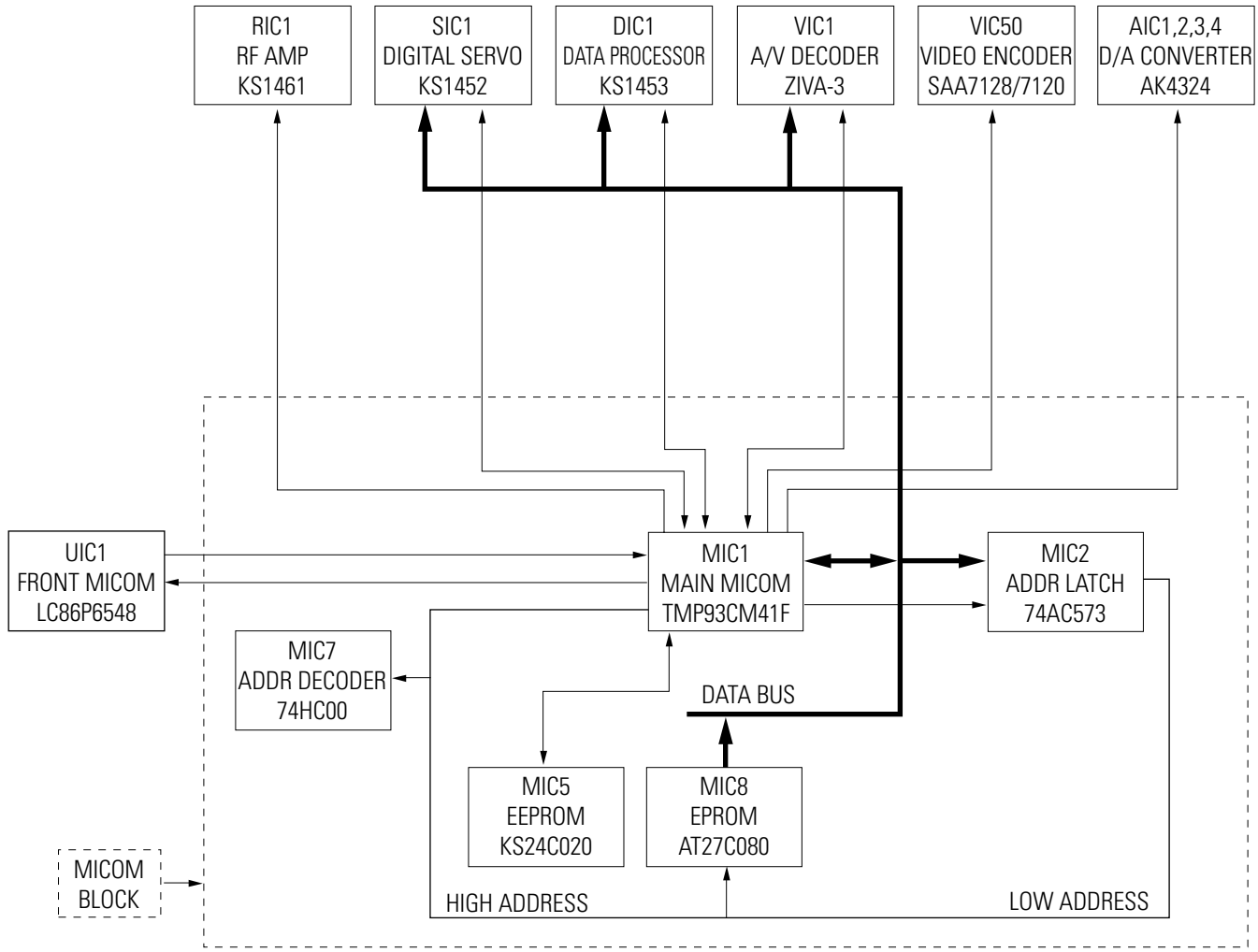


Fig. 4-3

4-2-3 Waveform Description

When micom accesses each device sharing bus, it falls the chip select signal of corresponding chip to (CS2:MIC8-22, /DSPCS:DIC1-2, /DVDCS:VIC1-206/SRVCS:SIC1-10) 0 (Low) before trial.
So to speak, the bus is used by time-division as shown in Fig 4-4, 4-5, 4-6.
Two and more devices can't be accessed simultaneously.

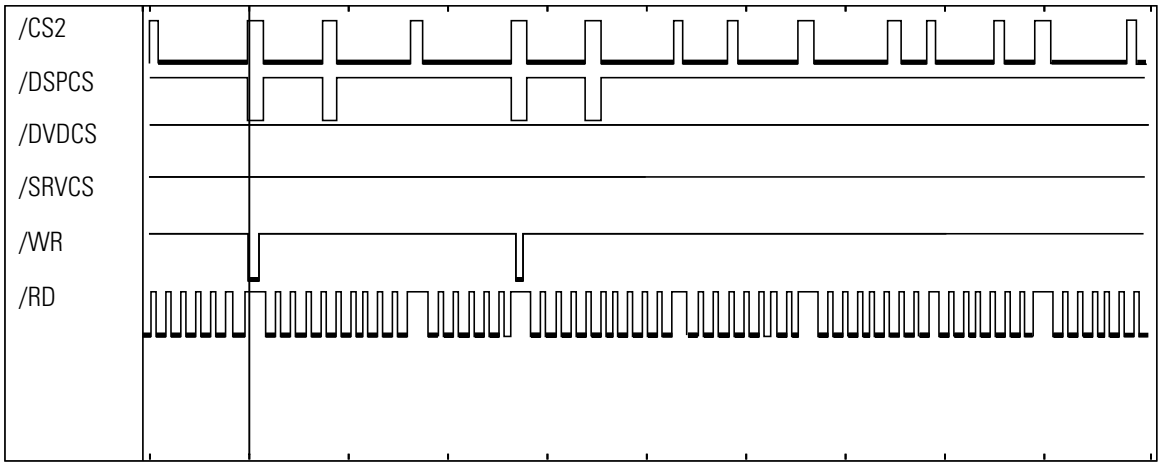


Fig. 4-4

- CH1 : CS2 (MIC8-22, EPROM CHIP SELECT)
- CH2 : DSPCS (DIC1-2, DATA PROCESSOR CHIP SELECT)
- CH3 : DVDCS (VIC1-206, A/V DECODER CHIP SELECT)
- CH4 : SRVCS (SIC1-10, DIGITAL SERVO CHIP SELECT)
- CH5 : WR (MIC1-73, MICOM OUTPUT WRITE SIGNAL)
- CH6 : RD (MIC1-72, MICOM OUTPUT READ SIGNAL)

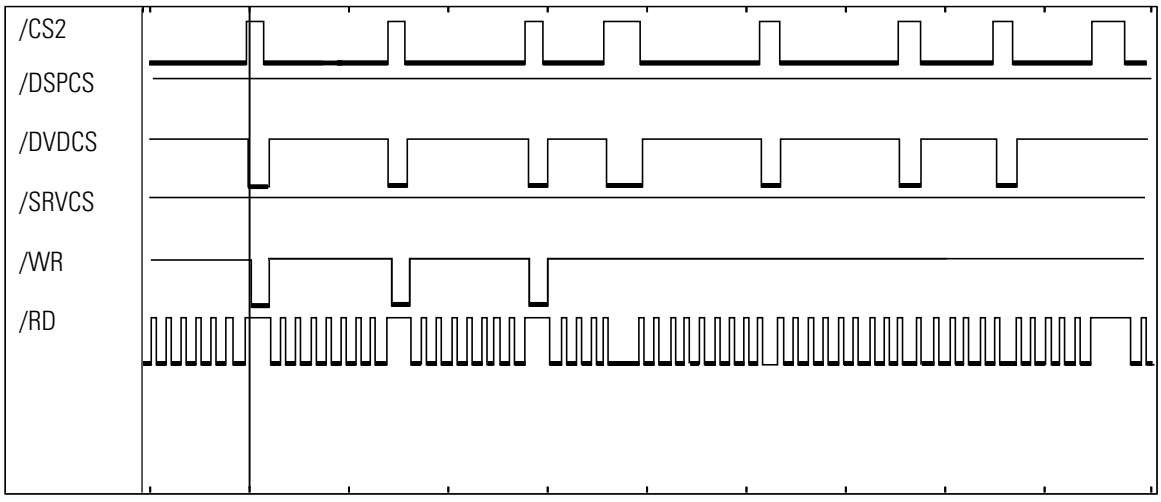


Fig. 4-5

- CH1 : CS2 (MIC8-22, EPROM CHIP SELECT)
- CH2 : DSPCS (DIC1-2, DATA PROCESSOR CHIP SELECT)
- CH3 : DVDCS (VIC1-206, A/V DECODER CHIP SELECT)
- CH4 : SRVCS (SIC1-10, DIGITAL SERVO CHIP SELECT)
- CH5 : WR (MIC1-73, MICOM OUTPUT WRITE SIGNAL)
- CH6 : RD (MIC1-72, MICOM OUTPUT READ SIGNAL)

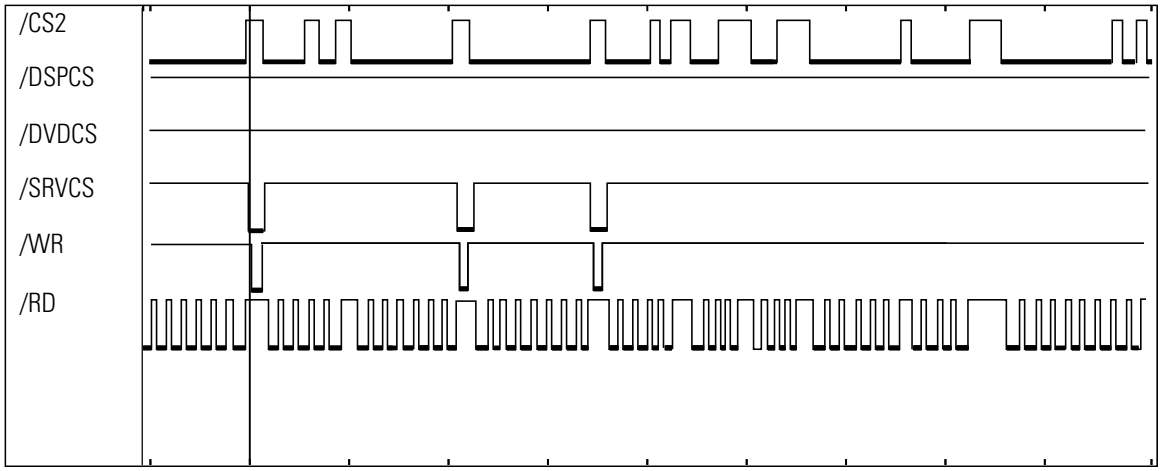


Fig. 4-6

- CH1 : CS2 (MIC8-22, EPROM CHIP SELECT)
- CH2 : DSPCS (DIC1-2, DATA PROCESSOR CHIP SELECT)
- CH3 : DVDCS (VIC1-206, A/V DECODER CHIP SELECT)
- CH4 : SRVCS (SIC1-10, DIGITAL SERVO CHIP SELECT)
- CH5 : WR (MIC1-73, MICOM OUTPUT WRITE SIGNAL)
- CH6 : RD (MIC1-72, MICOM OUTPUT READ SIGNAL)

4-3 Servo

4-3-1 Outline

SERVO system of DVD is divided into Focusing SERVO, Tracking SERVO, SLED Linked SERVO and CLV SERVO (DISC Motor Control SERVO).

1) Focusing SERVO
Focuses the optical spot output from object lens onto the disc surface. Maintains a uniform distance between object lens of Pick-up and disc (for surface vibration of disc).

2) Tracking SERVO
Make the object lens follow the disc track in use of tracking error signal (created from Pick-up).

3) SLED Linked SERVO
When the tracking actuator inclines outwardly as the object lens follows the track during play, the SLED motor moves slightly (and counteracts the incline).

4) CLV SERVO (DISC Motor Control SERVO)
Controls the disc motor to maintain a constant linear velocity (necessary for RF signal).

4-3-2 Block Diagram

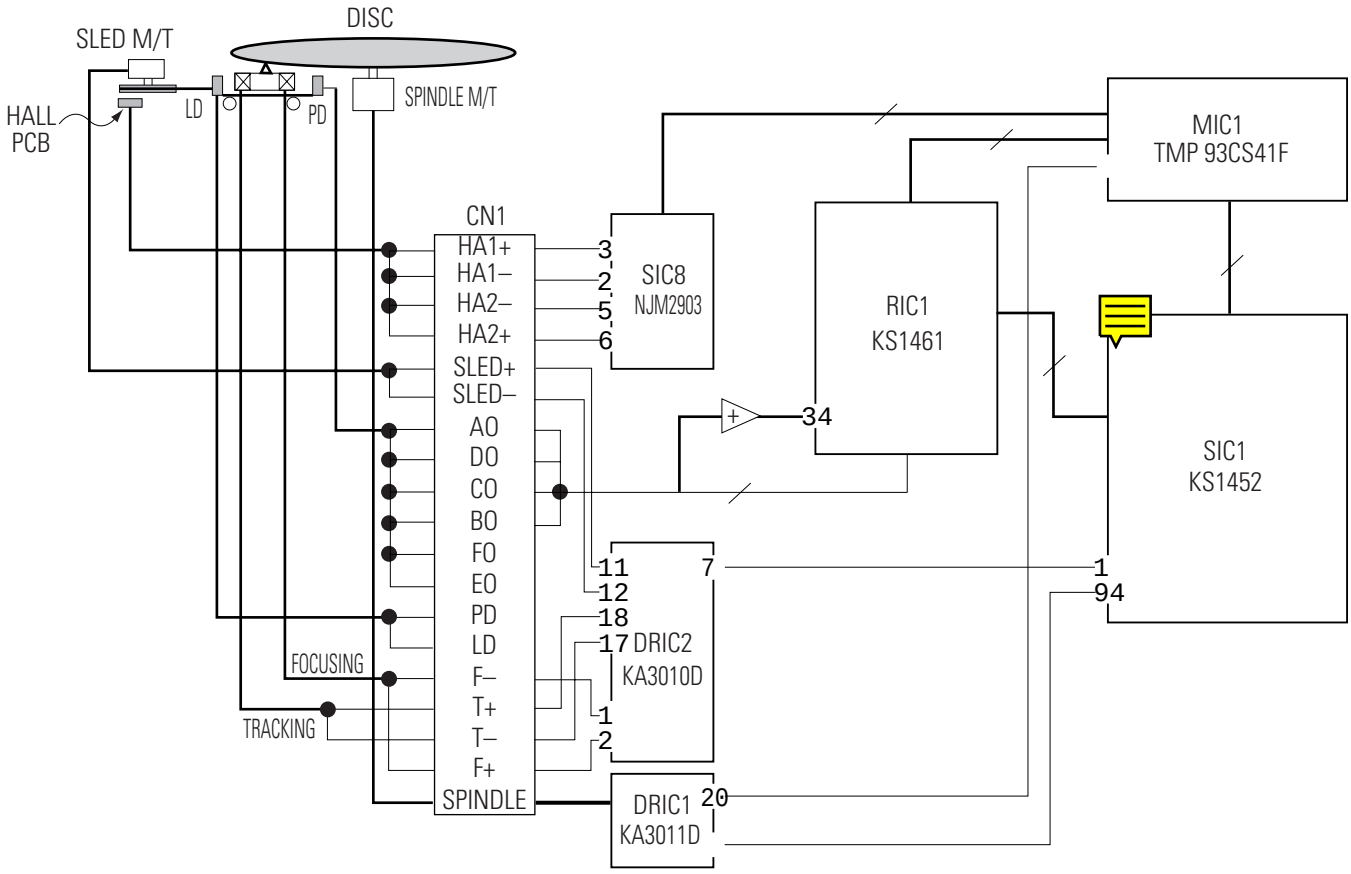


Fig. 4-7

4-3-3 Operation

1) FOCUSING SERVO

(1) FOCUS INPUT

The focus loop is changed from open loop to closed loop, and the triangular waveform moves the object lens up and down (at pin 75 of SIC1 during Focus SERVO ON.) At that time, S curve is input to pin 65 of SIC1.

ABAD (pin 39 of RIC1) signal, summing signal of PD A, B, C, D, is generated, and zero cross(2.5V) point occurs when S curve is focused and ABAD signal exceeds a preset,constant value. The focus loop is changed to closed loop, and the object lens follows the disc movement, maintaining a constant distance from the disc. (these operations are same in CD and DVD).

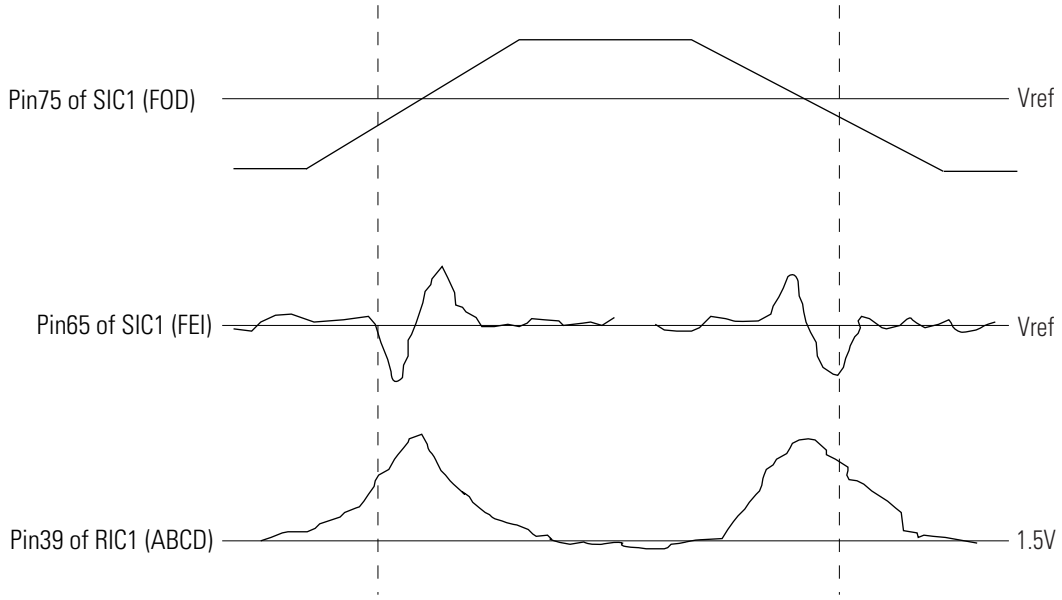


Fig. 4-8

(2) PLAY

When focus loop closes the loop during focus servo on, both pin 65 and pin 75 of SIC1 are controlled by VREF voltage (approx. 2.5V), and pin 1, 2 of DRIC2 are approximately 4.5V.

2) TRACKING SERVO

(1) NORMAL PLAY MODE

‘ For DVD
Composite : The signal output from PD A, B, C, D of Pick-up, the tracking error signal (pin36 of RIC1) uses the phase difference of A+C and B+D in RIC1, and inputs to terminal 64 of SIC1. Then, it is output to SIC1 pin 76 via digital equalizer, and applied to the tracking actuator through DRIC2.
Pins 17, 18 of SIC1 are controlled by VREF(approx. 2.5V) during normal play.
Meanwhile, DVD repeats the track jump from 1 to 4 in inner direction at normal play (because data- read speed from disc is faster than data output speed on screen).

« For CD, VCD
Receive the signal output through E, F of Pick-up, from RIC1. The tracking error signal is similar to DVD.

(2) SEARCH Mode :

Search mode : Fine seek,(Moving the tracking actuator slightly little below 255 track) and coarse search, moving much in use of sled motor. The coarse search will be described in sled linked servo and now, the fine seek is explained shortly.
If the object lens is located near target, cut off the tracking loop and give the control signal as many as desired count to move the tracking actuator via SIC1 pin 76 terminal(TRD).

3) SLED LINKED SERVO

- Normal play mode
  Move SLED motor slightly by means of PWM signal in SIC1 pin 73, as the tracking actuator moves along with track during play. Control to move the entire Pick-up as the tracking actuator moves.

- Coarse serach mode
  In case of long-distance search (such as chapter serach), SIC1 uses sled FG (SIC8 pin 1, 7, which is generated) by rotation of sled motor via hall PCB. Then, read ID and compute the existing track count after input of next track. If the existing track count is within fine seek range, tracking begins using fine seek.

4) CLV SERVO(DISC MOTOR CONTROL SERVO)

Input RF signal (from Pick-up) to SIC1 pin59. Detect SYNC signal from RF in SIC1, and output PWM signal to SIC1 pin 55 for constant linear velocity.

4-4 DVD Data Processor

4-4-1 Outline

DIC1(KS1453) performs Sync detection, EFM/EFM demodulation and error correction and Spindle motor control (CLV control) after inputting sliced EFM signal of RF signal at disc playback and EFM read clock (PLCK) signal generated from PLL. Outputs data which converted to the last audio and video from A/V decoder(VIC1). KS1453 uses external memory(4M DRAM) as buffer as well as for error correction and carries out Variable Bit Rate transfer function. VBR function uses the external buffer as buffer to absorb the difference of transfer rate occurring because the transfer rate of disc playback is faster than data transfer rate demanded by A/V decoder(Video/Audio Signal Process Chip).
In case of general disc refresh, the memory is almost filled up periodically. It is because Write rate to memory after disc playback and signal process is faster than Read of A/V decoder. When the memory is filled, this status is reported by interrupt to main micom, which controls the servo to kick back the pick-up to the previous track after memorizing the last data read from disc until now. It takes some times to jump to the previous track and return to the original(jump location) again. The memory will have an empty space because A/V decoder reads out data of memory.
When the memory has an empty space, where data can be processed and written and the pick-up correctly gets to the original location(before kick back location) again, it reads data again avoids the interrupt of data read previously. The basic operation repeats to perform as described above.

4-4-2 Block Diagram

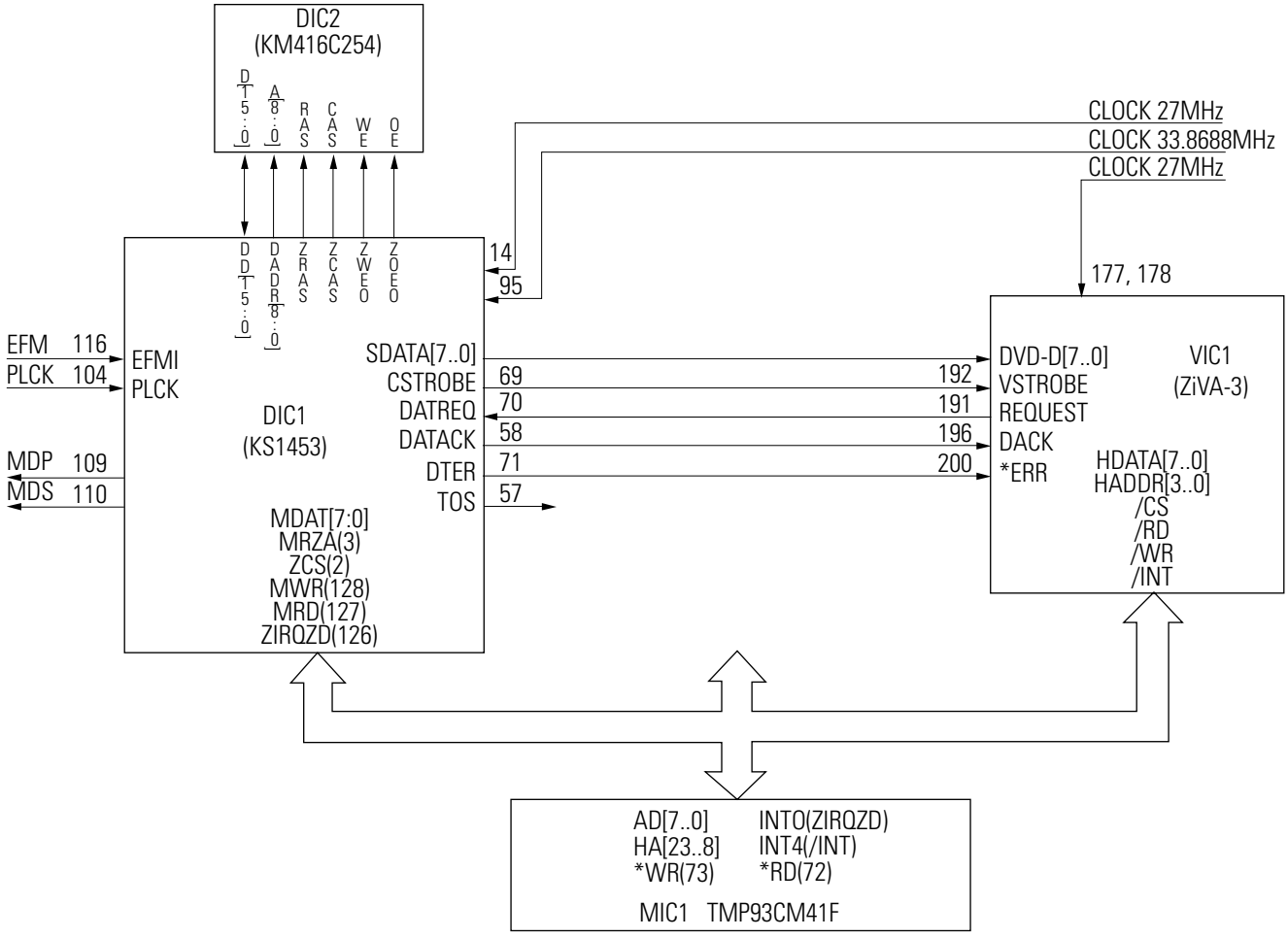


Fig. 4-9

4-4-3 Waveform Description

It measures the timing that data processed in DIC1 at DVD playback.

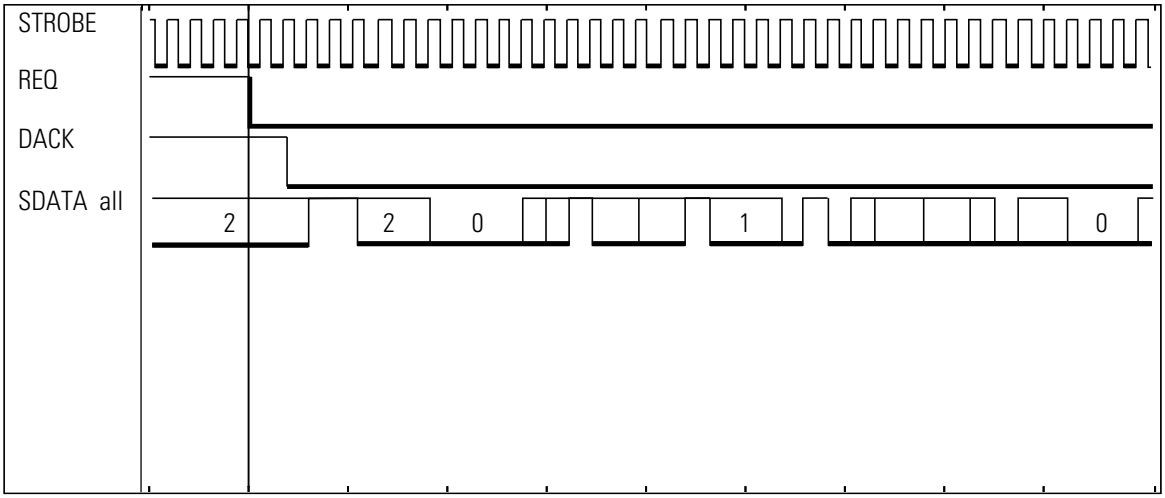


Fig. 4-10

- CH1 : STROBE (DIC1-69, CLOCK)
- CH2 : REQ (DIC1-70, DATA REQUEST)
- CH3 : DACK (DIC1-58, DATA ACKNOWLEDGE)
- CH4 : SDATA (DIC1-60~67, DATA)

4-5 Video

4-5-1 Outline

VIC50 sends VSYNC and HSYNC from VIC1(A/V decoder) and receives 8bit video data.
VIC50 does RGB encoding, copy guard processing and D/A conversion of 8bit video data inputted from VIC1(A/V decoder) by control of MIC1(Micom).
Video signal converted into analog signal is outputted via amplifier of analog part.

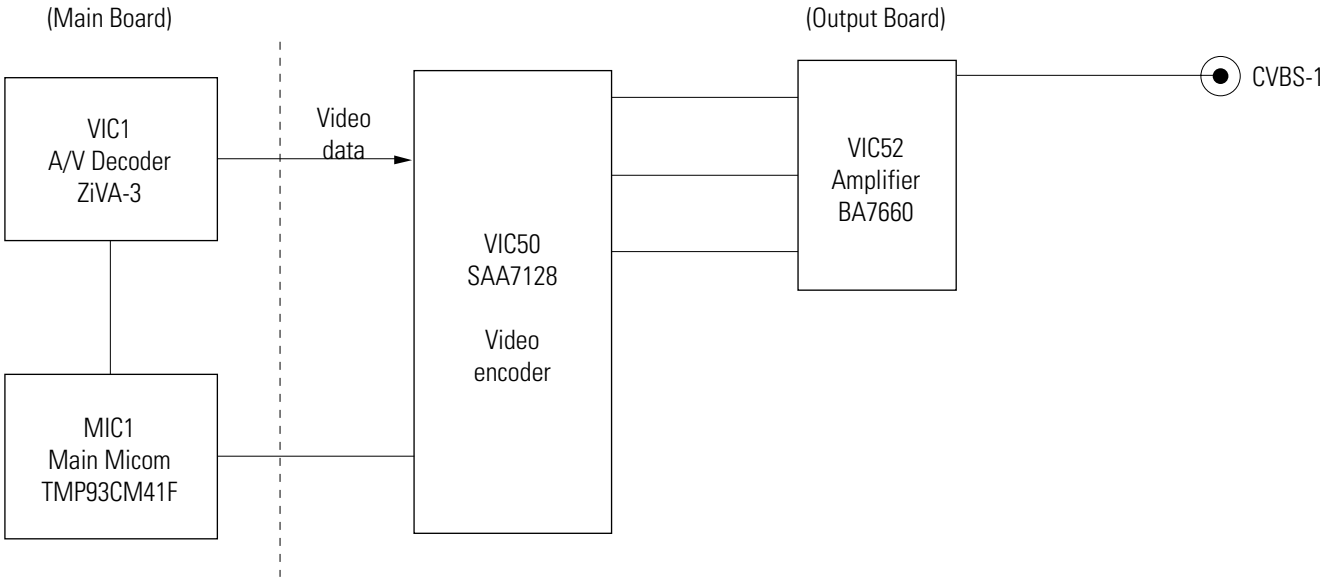


Fig. 4-11 Video Output Block Diagram

4-5-2 NTSC/PAL Digital Encoder (VIC50 : SAA7128)

VIC50 inputted from pin4 with 27MHz generates HSYNC and VSYNC which are based on video signal. Each HSYNC and VSYNC outputted from Pin8 and Pin7 are inputted to Pin157 and Pin158 of A/V decoder VIC1(ZIVA-3). VIC1 is the synchronous signals with the video signal and control the output timing of 8bit video signal of ITU-R601 format. (Pin180, 182, 184 ~ 189 (MSP))
8bit data is inputted to Pin9(MSB) and Pin16 of VIC50 and the inputted data is demuxed with each 8bit of Y/R-Y/B-Y. The separate signal is encoded to NTSC or PAL by control of MIC1. The above signals, that is CVBS
(Composite Video Burst Synchronized)(Pin30), S-Video (Y:Pin27, C:Pin24), Y/Pb/Pr(Pin27/Pin29/Pin23) and GB(Pin26/Pin29/Pin23). In course of encoding, 8bit data can extend to 10bit or more. To convert the extended data to quantization noise as possible, VIC50 adopts 10bit D/A converter. VIC50 perform video en-coding as well as copy protection.

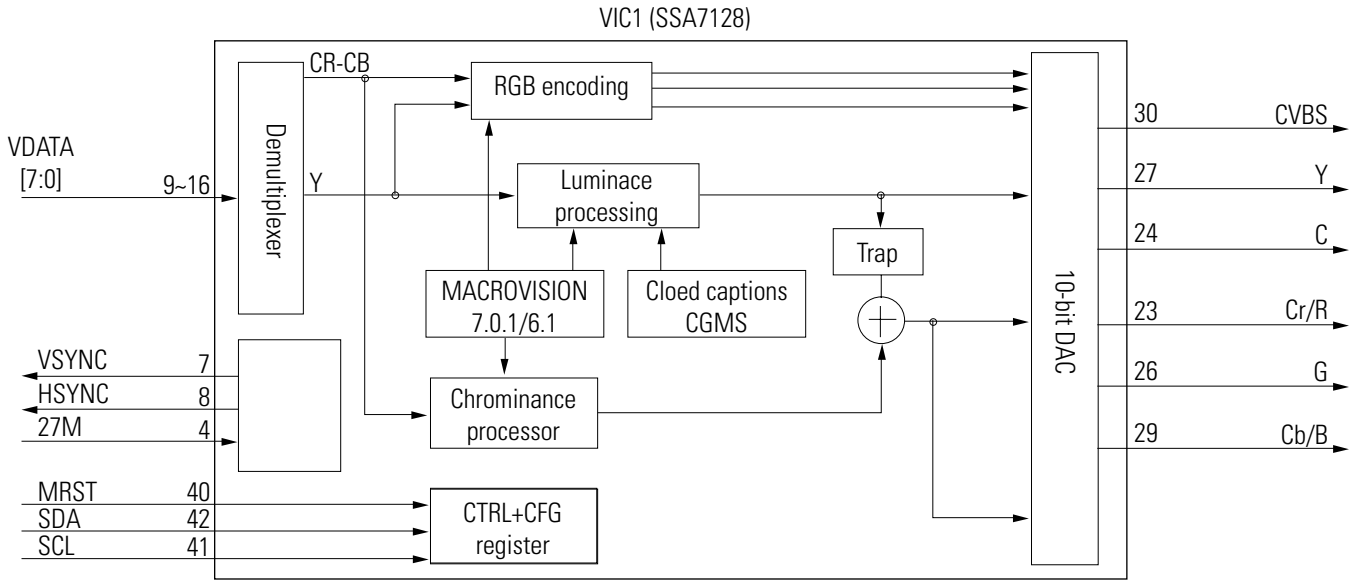


Fig. 4-12

4-5-3 Amplifier (VIC51, VIC52 : BA7660)

VIC51 and VIC52 are 6dB amplifier. Based on CVBS signal, the final output level must be 2Vpp without 75ohm terminal resistance. Because the level of video encoder output is only 1.1Vpp, the level is adjusted with the special amplifier. When mute of pin1 is high active, if the pin is floating and connected to power, the output signal is never outputted. CVBS, Y, C, Cr and Cb outputted from video encoder are inputted to VIC52 (Pin7, Pin2 and Pin4) and VIC51 (Pin7 and Pin4) respectively and outputted from VIC52 (Pin10, Pin15 and Pin13) and VIC51 (Pin10 and Pin 13). Pin9, Pin12 and Pin14 of VIC51 and VIC52 are feedback pin to SAG compensation(DC characteristic compensation of signal). Resistance(VR3-VR14) which is inserted to input terminal is bias resistance for input offset. The signal to which gain is adjusted by amplifier is outputted from jack via 75ohm.

4-6 Audio

4-6-1 Outline

The four data (Data 0~3) outputted from A/V decoder (VIC1 ; ZiVA-3) are supplied to DATA 0 for 2-channel mixed audio output and to DATA 1~3 for Analog audio output (5.1-channel).
The audio data (0~3) transmitted from A/V decoder (VIC1 ; ZiVA-3) are converted into analog signal via audio D/A converter and outputted via post filter and amplifier.
CD and VCD are outputted with only 2 channels audio data and transmit them to Data 0 and Data 1.
Front L/R channel is outputted in mixed audio output (L/R output) and analog audio output and surround L/R, center and subwoofer aren't outputted.
If DVD of 2 channels source disc is used, it is outputted by the same way with CD and VCD.

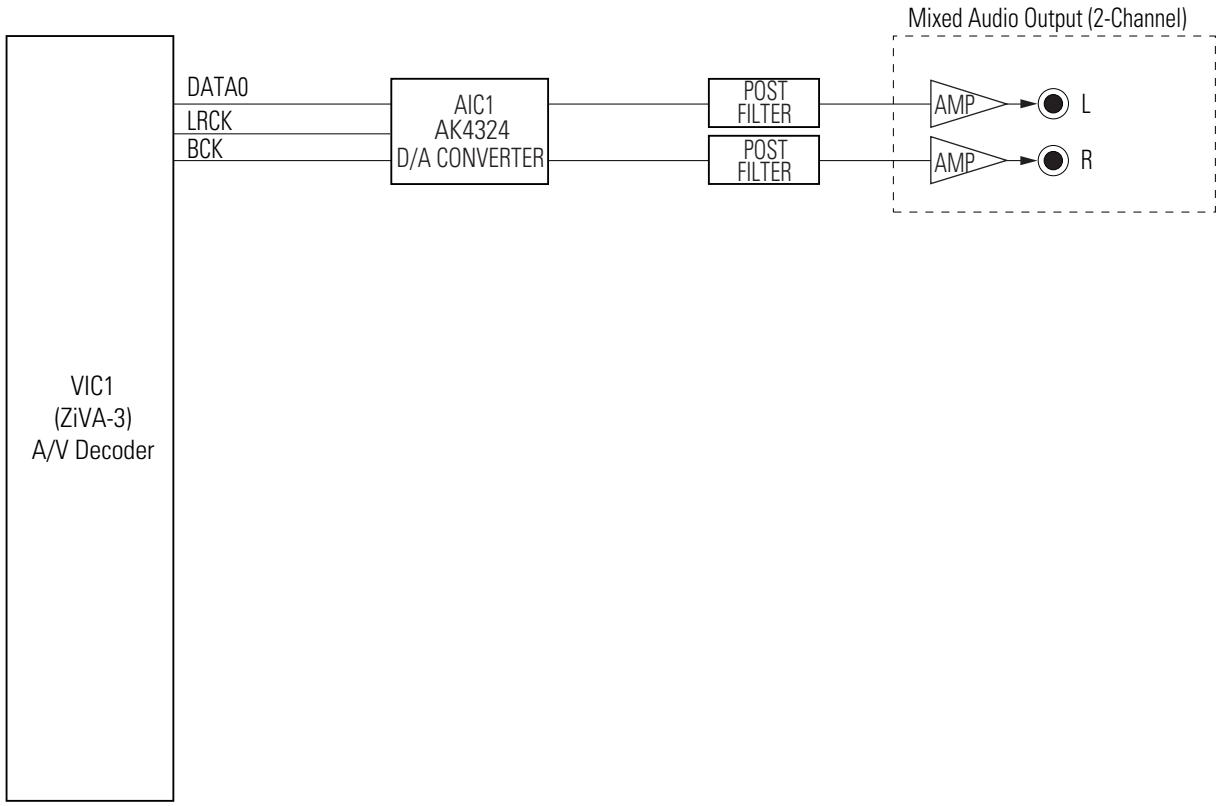


Fig. 4-13 Audio Output Block Diagram

4-6-2 DVD Audio Output

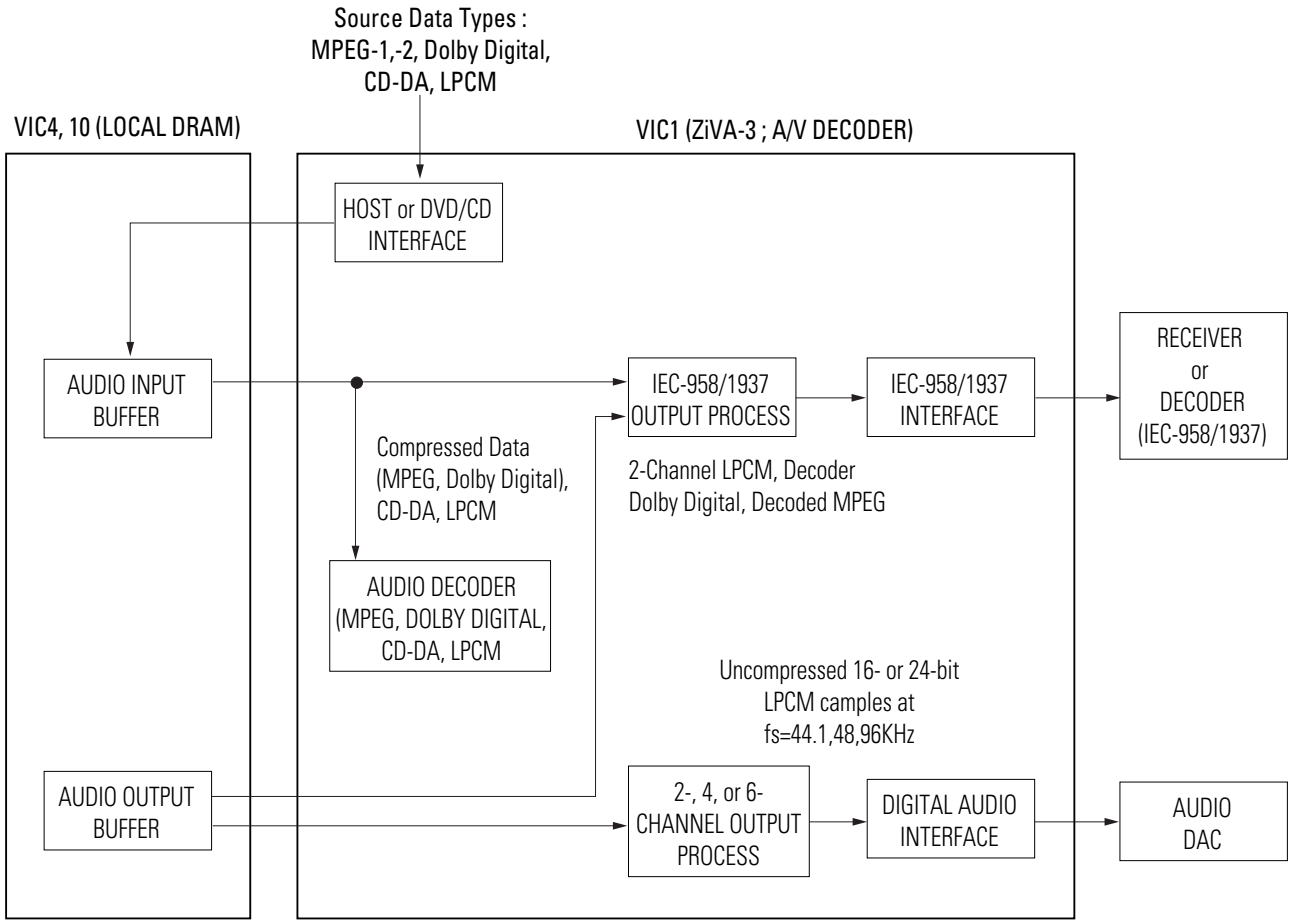


Fig. 4-14 Audio Decoder and Output Interface Datapath

1) Compressed Data

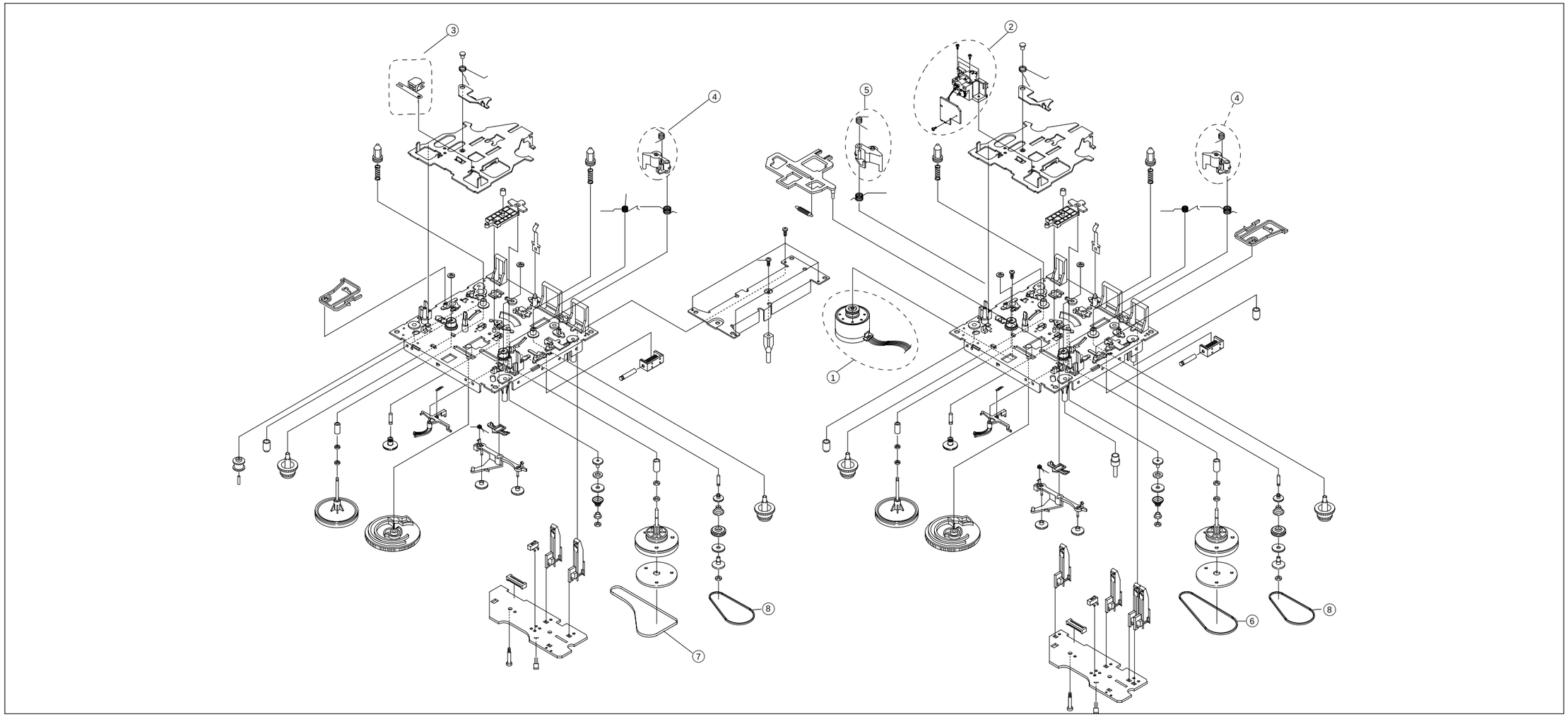
The audio data inputted to VIC1 (ZiVA-3) A/V decoder is divided into compressed data and uncompressed data. It is compressed data that is compressed with multi-channel audio data such as Dolby digital, MPEG, DTS, etc. The compressed data inputted to VIC1 (ZiVA-3) is converted into the uncompressed data of 2, 4, and 6 channels through ZiVA-3 built-in audio decoder and is outputted to Data 0, 1, 2, and 3 through digital audio interface. The compressed data is transmitted to external AC-3 amplifier or MPEG/DTS amplifier as IEC-958/1937 transmission data format compressed by ZiVA-3 built-in IEC-958 output process.

2) Uncompressed Data

The uncompressed data is that data isn't compressed, so it is called CD-DA, LPCM data.
The 2 channels data is converted through audio decoder 2-channel data and Data 0 and Data 1 are outputted in digital audio interface.Via IEC-958 output process, they is transmitted to digital amplifier or AC-3/MPEG/DTS amplifier built in the external digital input source with IEC-958/1937 transmission format.

5.Exploded Views and Parts List

5-1 Cassette Deck Exploded View and Parts List :

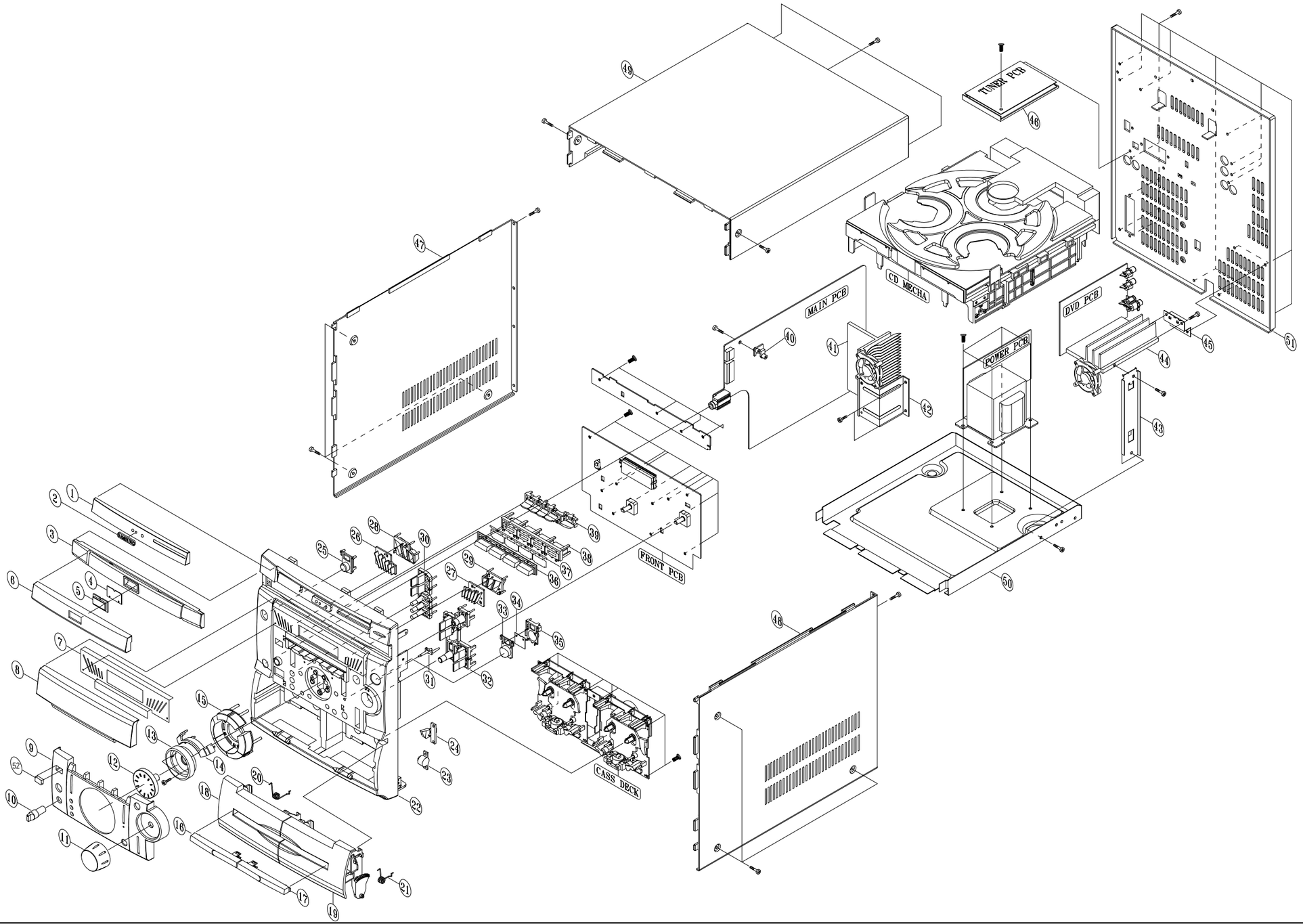


No.	Code No.	Description	Specification	Remarks
	AH59-20006B	DECK-CASSETTE	ADR2113MW3	
1	AH81-11052G	MOTOR ASS'Y	EG530YD2BH	
2	AH81-10798Y	HEAD ASS'Y(R/P)	YK56RAA4N3	
3	AH81-10022E	HEAD ASS'Y(P/B)	MS15RAA2N1	
4	AH81-10798K	PINCH ARM(F)	ADR2100-06	
5	AH81-10798M	PINCH ARM(R)	ADR2100-07	
6	AH81-10798Q	MAIN BELT(R/P)	ADR2113MW-02	
7	AH81-10798T	MAIN BELT(P/B)	ADR2113MW-03	
8	AH81-10798U	SUB BELT	ADR2100-09	

5-2 Total Exploded View and Parts List

5-2-1 Total Exploded1 - MINI Part

MAX-945D EXPLODED VIEW

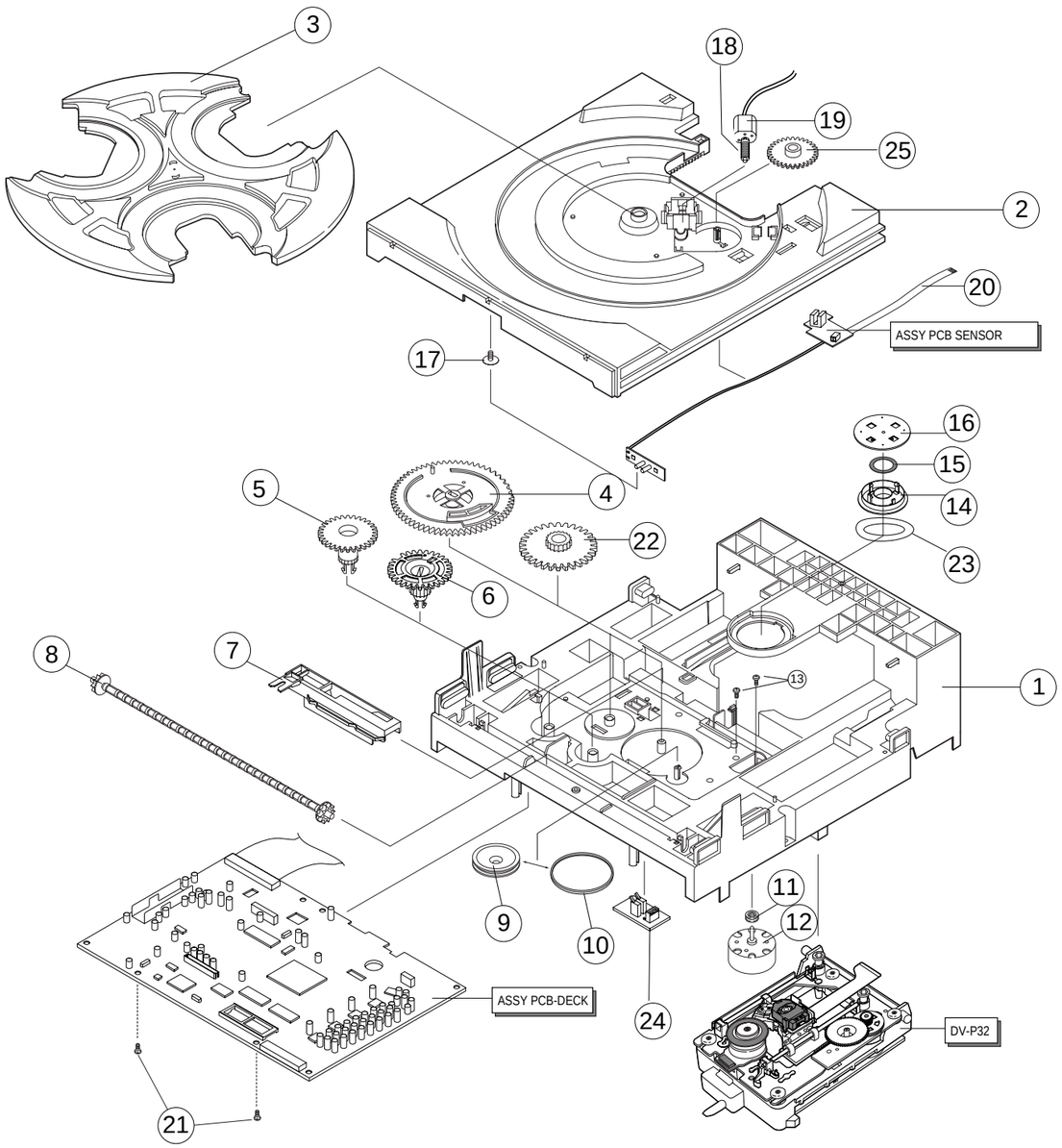


5-2-2 Parts List of Total Exploded view1 - MINI Part

No.	Code No.	Description	Specification	Remarks
1	AH64-40457B	WINDOW-CD	PMMA 850-71129	BASIC
	AH64-40457C	”	PMMA 850-71129	RDS
2	AH64-70003H	BADGE-BRAND	ABS BLK(H/STAMPING)	
3	AH64-00130B	DOOR-CD	ABS L/GRAY(G6236)	
4	AH67-00006A	FILTER-DVD	KIMO 100	
5	AH67-00007B	LENS-DVD	ACRYL CLR	
6	AH64-00131B	WINDOW-DOOR,CD	PMMA 850-71129	
7	AH67-40036A	FILTER-VFD	PC 0.3T BLK	
8	AH64-40459A	WINDOW-VFD	PMMA 850-41802	
9	AH61-20535Q	CAP-FRONT,E	MIPS D/GRAY	945 DVD + RDS
	AH61-20535T	“	“	BASIC
	AH61-20536J	CAP-FRONT,D	“	MAX945 DVD + MIC
	AH61-20536K	“	“	MAX945 DVD + MIC + RDS
10	AH64-11214C	KNOB-MIC	D/GRAY(G3174)	BUYER OPTION
11	AH64-11321B	KNOB-VOLUME	L/GRAY(G6236)	
12	AH64-11322B	KNOB-JOG	ABS NATURAL	
13	AH64-40462A	DECO-JOG	ABS 94HB BLK	
14	AH61-20537B	CAP-TIMER	ABS NATURAL	
15	AH64-11317B	KNOB-TIMER	ABS NATURAL	
16	AH64-40460A	WINDOW-DOOR,A	PMMA 850-71129	
17	AH64-40461A	WINDOW-DOOR,B	PMMA 850-71129	
18	AH64-50351E	DOOR-CASS.A	ABS L/GRAY(G6236)	
19	AH64-50352G	DOOR-CASS.B	ABS L/GRAY(G6236)	
20	AH61-62004A	SPRING-EJECT,A	STS ϕ1.1	
21	AH61-62005A	SPRING-EJECT,B	STS ϕ1.1	
22	AH64-30441F	CABINET-FRONT	MIPS L/GRAY(G6236)	
23	AH61-80030A	DAMPER-ASSY	POM	
24	AH95-50001A	LATCH-ASSY	POM	
25	AH64-11316D	KNOB-POWER	L/GRAY(G6236)	
26	AH67-10182A	LENS-COM,L	PMMA MILKY	
27	AH67-10183A	LENS-COM,R	PMMA MILKY	
28	AH61-20541A	HOLDER-COM,L	ABS WHT	
29	AH61-20542A	HOLDER-COM,R	ABS WHT	
30	AH64-11319A	KNOB-DEMO	D/GRAY(G3174)	
31	AH67-10187A	LENS-REC	PMMA MILKY	
32	AH64-11318A	KNOB-DUBBING	D/GRAY(G3174)	
33	AH67-10184B	LENS-TURBO	ACRYL CLR	
34	AH67-40038A	FILTER-TURBO	KIMO 100	
35	AH61-20543A	HOLDER-TURBO	ABS WHT	
36	AH67-10186E	LENS-FUNTION	PMMA CLEAR	
37	AH67-40037A	FILTER-FUNCTION	KIMO 100	
38	AH61-20544A	HOLDER-FUNCTION	ABS WHT	
39	AH64-11315A	KNOB-DISC	L/GRAY(G3174)	
40	AH61-00021A	SUPPORT-PCB	ABS 94HB BLK	
41	AH62-32009A	HEAT-SINK,M	AL	
42	AH61-10767A	BRKT-H/SINK	SECC 1.0T	
43	AH61-00111A	BRKT-SIDE	SECC 1.0T	
44	AH62-00009A	HEAT-SINK,DVD	AL	
45	AH61-00110A	BRKT-REAR	SECC 1.0T	
46	AH61-20540A	HOLDER-TUNER	PC + ABS BLK	
47	AH64-30444A	CABINET-SIDE,L	MIPS M/GRAY	
48	AH64-30445A	CABINET-SIDE,R	MIPS M/GRAY	
49	AH64-30443A	CABINET-TOP	MIPS M/GRAY	
50	AH64-30416A	CABINET-BOTTOM	SECC 1.0T	
51	AH64-00132D	CABINET-REAR	SECC 0.8T	2 VOL + DVD + SW
	AH64-00132E	“	“	1 VOL + DVD
	AH64-00132F	“	“	1 VOL + DVD + SW
	AH64-00132H	“	“	2 VOL + DVD
52	AH67-10185A	LENS-REMOCON	ACRYL BROWN	

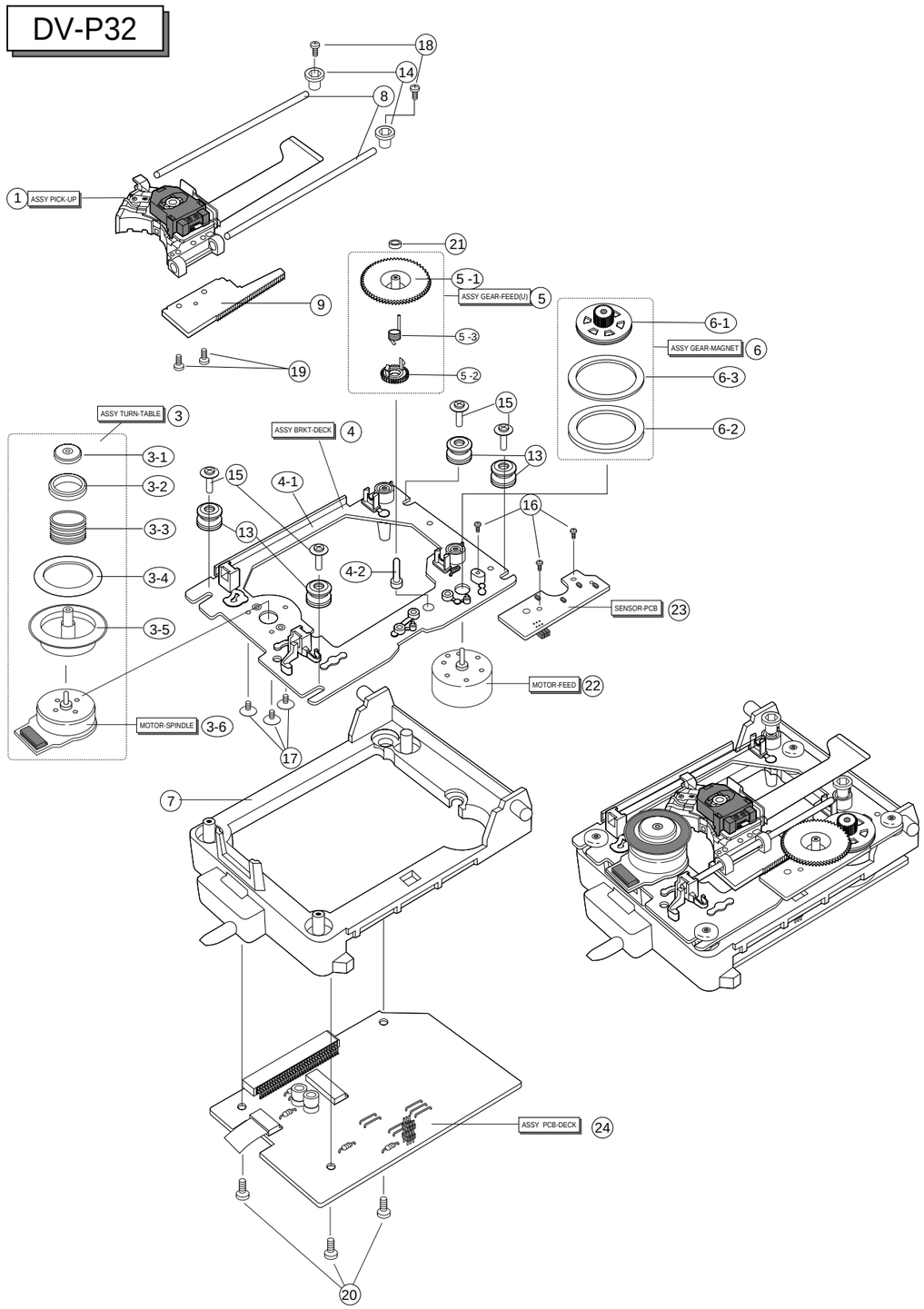
5-3 DVD Mecha Exploded View and Parts list

CMS-300DVD



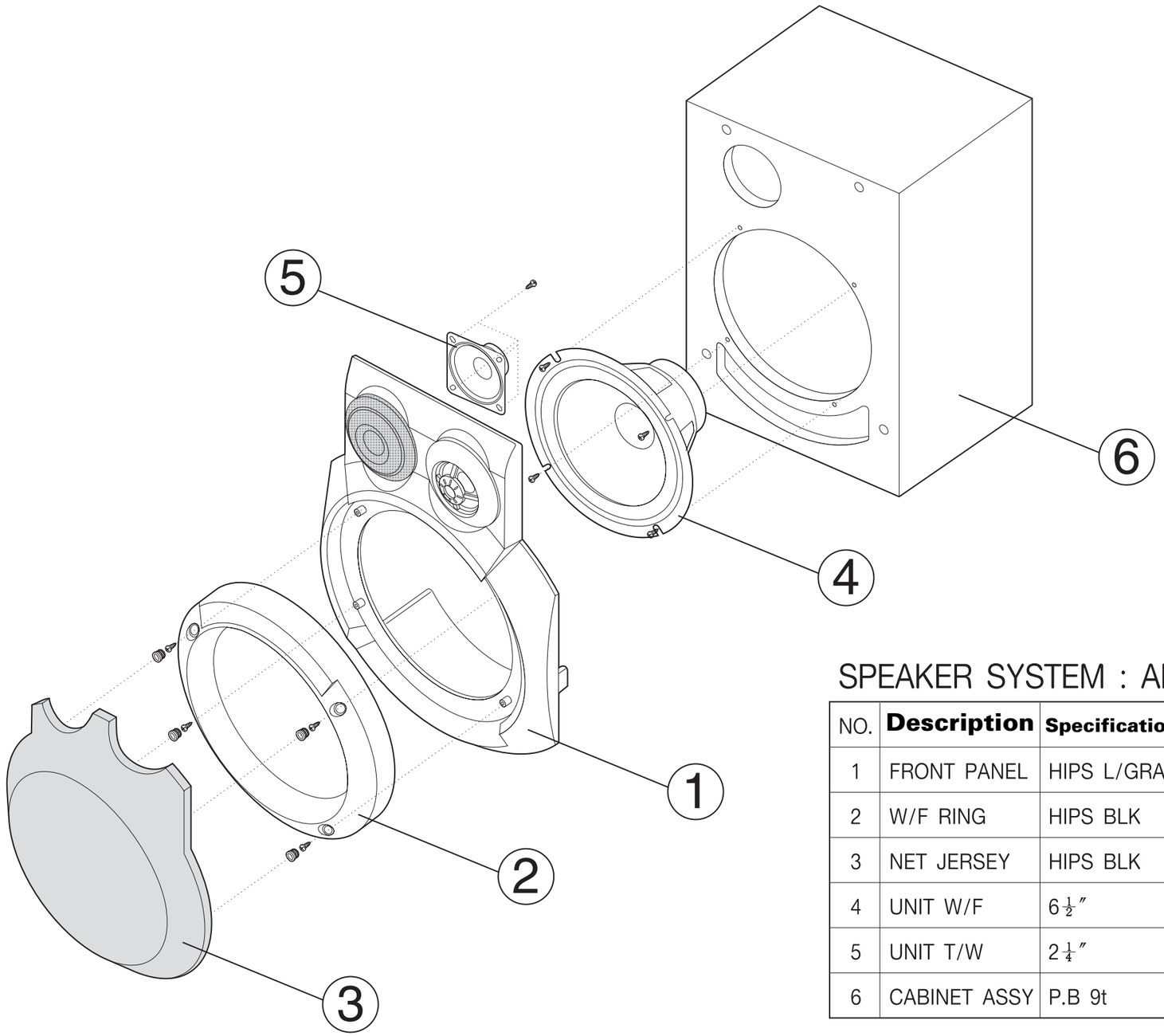
No.	Code No.	Description	Specification	Remarks
	AH97-00223A	CMS3000-L	DVD MECHA ASS'Y	
1	AH61-20428A-1	BASE-MAIN	ABS WHT	
2	AH66-90055A	TRAY-DISC	ABS BLK	
3	AH66-90056A	ROULLETTE	ABS BLK	
4	AJ66-20001A	GEAR-CAM	DOM WHITE	
5	AH66-20190A	GEAR-CONVERT	POM(M90-44)	
6	AH66-20189A	GEAR-TRAY	POM(M90-44)	
7	AH66-80022A	SLIDE-CAM	ABS	
8	AH66-20191A	GEAR-SYNCRO	ABS(HF-380)	
9	AH66-20186A	GEAR-PULLEY	POM(M90-44) WHT	
10	AH66-60034A	BELT-LOAD	CR T1.5	
11	AH66-10008A	PULLEY-MOTOR	POM,BLK,CMS-CR3	
12	AH31-10021A	MOTOR-DC	RE-500TB,9VDC/130MA	
14	AH61-00070A	PLATE-CHUCK	M90-44(DURACON)	
15	AH33-00002A	MAGNET	RARE EARTH MAGNET	
16	AH66-00027A	CLAMPER	M90-44(DURACON)	
17	AH60-10016A	SCREW	PH,+,-,M2.6,L4 ,YEL,-,	
18	AH66-20192A	GEAR-WORM	POM(M90-44)	
19	AH31-12001A	MOTOR-ROULETTE	FF-030PN-09210	
20	AH39-00049A	CABLE-DIN-FLAT	DP,-,160,UL2896 36P,BD,WHT,5,-	
21	AC60-10059A	SCREW-TAPPING	BH,+,-,1.7X5,ZPC2	
22	AH66-20187A	GEAR-LOAD	POM(M90-44)	
23	AH63-00086A	SHEET-CHUCK	DV-P32	
24	AH59-10102A	ASS'Y PCB SW	CMS-300	
25	AH66-20193A	GEAR-ROULLETTE	POM(M90-44)	

5-4 DVD DECK Exploded View and Parts list



No.	Code No.	Description	Specification	Remarks
	AH97-00199A	ASSY P/U DECK	DV-P32	
1	AH30-20001B	ASSY PICK-UP	SOH-DP1	
3	AH97-00065A	ASSY TURN-TABLE	DV-P32	
3-1	AH70-00004A	DRUM-HOLDER	SF20T	
3-2	AH70-00003A	DRUM-RING CENRER	C3604BD	
3-3	AH61-00061A	SPRING-T/T	SUS304-WPB	
3-4	AH73-00004A	RUBBER-T/T	CR(NEO-B-6150)	
3-6	BG31-12007A	MOTOR-SPINDLE	BML3E5CRE	
4	AH97-00066A	ASSY BRKT-DECK	A'SSY	
4-1	AH61-00064A	BRACKET-DECK(P)	SECC 1.2	
4-2	AH61-00072A	SHAFT-GEAR(FEED)	SUS303	
5	AH97-00067A	ASSY GEAR-FEED(U)	ASS'Y	
5-1	AH66-00023A	GEAR-FEED(U)	M90-44(DURACON)	
5-2	AH66-00024A	GEAR-FEED(L)	M90-44(DURACON)	
5-3	AH61-00067A	SPRING-FEED	SUS304-WPB	
6	AH97-00068A	ASSY GEAR-MAGNET	ASS'Y	
6-1	AH66-00025A	GEAR-MAGNET	M90-44(DURACON)	
6-2	AH33-00001A	MAGNET-PLASTIC	NYLON12+FERRITE	
6-3	AH02-00001A	TAPE-DOUBLE	NITTO 5015	
7	AH61-00068A	CHASSIS-SUB	ABS +GF 20%	
8	AH61-00069A	SHAFT-PU	SUS420J2	
9	AH66-00026A	RACK-SLIDE	M90-44(DURACON)	
13	AH61-00071A	DAMPER	BUTYL 30µµ	
14	AH61-00091A	HOLDER-CAM	KEPITAL F20-03	
15	AH60-10143U	SCREW-TAP TITE	M1.7X5 SPEC YEL	
16	AH60-00006A	SCREW-MECHINE	M1.7X7 BH SILVER	
17	BG60-10020A	SCREW SP-MOTOR	M1.7X3 YEL(M/S)	
18	AC60-10059A	SCREW-TAP TITE	M1.7X5 BH BLK	
19	AH60-10143Q	SCREW MECHINE	M1.7X4 BH BLK	
20	AH60-00007A	SCREW TAP TITE	M2.6x6 BH YEL	
21	AH60-00009A	POLY-WASHER	PI •'1.7X•'4 T0.4	
22	AH31-00001A	MOTOR-FEED	RF-300CH-11440	
23	AH92-00051A	ASS'Y-PCB HALL SENSOR	DV-P32	
24	AH92-00139A	ASS'Y-PCB-DECK	DV-P32	

5-5 SPEAKER Exploded View and Parts list



SPEAKER SYSTEM : AH81-00092A

NO.	Description	Specification	CODE-NO.	수량
1	FRONT PANEL	HIPS L/GRAY	AH81-00028B	1
2	W/F RING	HIPS BLK	AH81-00024C	1
3	NET JERSEY	HIPS BLK	AH81-00026B	1
4	UNIT W/F	6 1/2″	AH81-00028H	1
5	UNIT T/W	2 1/4″	AH81-00028J	1
6	CABINET ASSY	P.B 9t	AH81-00028F	1

6. Electrical Parts List

Location no.	Code no.	Description & Specifiation	Remarks

MAX945D Parts List

	3722-001027	JACK-SCART;EP/1C,3.3MM,AU/SN	
	AH26-00017A	TRANS-POWER;E85.8X50,-,-,115/230V,MAX945D	
	AH39-10002L	POWER CORD;CP2,KLCE-2F,2.15M,5239,VDE	
	AH39-40001F	CABLE-RCA;RCA,1200MM,AWG26,GRY,10MM,2P	
	AH39-40001T	CABLE-RCA-VIDEO CABLE,BLK,2000;DP,1P-1P,-,CABLE-RCA,2000MM,-,-,-,BLK,-	
	AH42-20001Q	ANT-LOOP;-,KS980214-01,18.5uH,CONNECTOR	
	AH59-10122J	REMOCON—ASSY;-,-,-,58KEY,MAX945,-	

AH90-10752Y ASSY-PCB-TUNER;CE+RDS BAND — S.N.A.

TFL4	14529-304-610	FILTER CERAMIC;AHCM2-450BL	
TX1	2801-000734	CRYSTAL-UNIT;7.2MHZ,50PPM,28-AAM,12PF,30OHM	
TFL2	2903-000105	FILTER-CERAMIC;BP,10.7MHZ+-25KHZ,180KHZ+-50KH	
TWA1	3710-001421	CONNECTOR-SOCKET;14P,1R,2mm,ANGLE,SN	
TJ2	3711-000814	CONNECTOR-HEADER;BOX,2P,1R,2.5mm,ANGLE,SN	
HIC1	AH14-10007G	IC;LC72131,DIP,STICK PLL	
TIC1	AH14-10008B	IC;LA1837,DIP,RF+MPX	
TLPF1	AH26-00005A	TRANS-IF;-,LKS75M00-X000264-0,LOW PASS FILTER,-,7	
TLPF2	AH26-00005A	TRANS-IF;-,LKS75M00-X000264-0,LOW PASS FILTER,-,7	
TL2	AH26-10001E	TRANS-IF;KS940228-09,-,-,7.6X12.0,-,450KHZ,BULK,	
TL3	AH26-10020A	TRANS-DET;-,7KLL,DET,-,7.8MM,91PF,11.32M	
TC39	AH61-40022A	STUD-TAP;SPC1,T0.5,BT2,-,-,	
TR6	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
TR19	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
TR45	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
TR47	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
TR49	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
TR24	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
TR43	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
TR21	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
TR22	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
TR46	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
TR48	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
TR50	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
TR53	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
TR54	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
TR56	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
TR10	2007-000308	R-CHIP;10OHM,5%,1/10W,DA,TP,2012	
TR20	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
TR28	2007-000457	R-CHIP;18KOHM,5%,1/10W,DA,TP,2012	
TR52	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
TR9	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
TR35	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
TR36	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
TR40	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
TR7	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	
TR11	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	
TR15	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
TR12	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	
TR29	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	
TR23	2007-000710	R-CHIP;3.9KOHM,5%,1/10W,DA,TP,2012	
TR8	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012	
TR4	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
TR51	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
TR17	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
TR37	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
TR25	2007-001043	R-CHIP;56OHM,5%,1/10W,DA,TP,2012	
TR27	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
TR38	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
TR44	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
TC48	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,TP,3.5X19	
TC41	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NPO,TP,2012	
TC20	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
TC28	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
TC29	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
TC3	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
TC44	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
TC7	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
TC1	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,TP,2012	
TC5	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,TP,2012	
TC33	2203-000844	C-CERAMIC,CHIP;39nF,10%,50V,X7R,TP,2012,-	
TC10	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012	
TC13	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012	
TC15	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012	
TC35	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012	
TC45	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012	
TC6	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012	
TC61	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,TP,2012	
TC62	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,TP,2012	
TC32	2203-001132	C-CERAMIC,CHIP;0.68nF,5%,50V,NPO,TP,2012	
TC2	2203-001517	C-CERAMIC,CHIP;15pF,5%,50V,NPO,TP,2012,-	
TC63	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,TP,2012,2MM	
TC64	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,TP,2012,2MM	
TC50	2203-001611	C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,2012,2mm	
TC51	2203-001611	C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,2012,2mm	
TD3	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
TD4	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
TD5	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
TD6	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
TZD1	0403-000367	DIODE-ZENER;UZ7.5BSC,7.5V,7.33-7.64V,500mW	
TZD2	0403-000393	DIODE-ZENER;UZP5.1B,5.1V,4.8-5.4V,1W,DO-41	
TQ4	0501-000294	TR-SMALL SIGNAL;KSA708-Y,PNP,800mW,TO-92,TP,12	
TQ2	0501-000392	TR-SMALL SIGNAL;KSC838-O,NPN,250mW,TO-92,-,70-	
TQ3	0501-000392	TR-SMALL SIGNAL;KSC838-O,NPN,250mW,TO-92,-,70-	
TQ1	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
TR30	2001-000117	R-CARBON(S);68OHM,5%,1/2W,AA,TP,2.4X6.4MM	
TR44	2001-000118	R-CARBON(S);180ohm,5%,1/2W,AA,TP,2.4x6.4mm	
TR58	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR5	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR39	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR57	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR1	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR55	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR18	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR3	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR13	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR40	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR41	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FREE	2001-000527	R-CARBON;22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR16	2001-000527	R-CARBON;22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR32	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR34	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR61	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR62	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR42	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TSR1	2103-000290	VR-SEMI;20Kohm,30%,1/10W,TOP	
TC14	2201-000565	C-CERAMIC,DISC;47nF,20%,50V,Y5V,12.5x4.0mm,5mm,TP	
TC39	2201-000565	C-CERAMIC,DISC;47nF,20%,50V,Y5V,12.5x4.0mm,5mm,TP	
TC40	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
TC42	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
TC48	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,TP,3.5X19	
TC21	2401-000240	C-AL;100uF,20%,10V,GP,TP,5x11,5	
TC46	2401-000240	C-AL;100uF,20%,10V,GP,TP,5x11,5	
TC12	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
TC26	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
TC27	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
TC30	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
TC34	2401-000907	C-AL;22UF,20%,16V,GP,-,5X11,2MM	
TC36	2401-001022	C-AL;3.3UF,20%,50V,GP,-,5X11,2MM	
TC38	2401-001164	C-AL;33UF,20%,16V,GP,-,5X11,2MM	
TC47	2401-001895	C-AL;100uF,20%,16V,GP,6.3x11mm,2.5m	
TC11	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
TC17	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
TC19	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
TC16	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
TC23	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
TC25	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
TC18	2401-001968	C-AL;470NF,20%,50V,GP,TP,5X11MM,5	
TC43	2401-001968	C-AL;470NF,20%,50V,GP,TP,5X11MM,5	
TC4	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
TC9	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	

AH93-10015R ASSY-MANU-TUNER;MAX980,OIRT — S.N.A.

RZD1	0403-000393	DIODE-ZENER;UZP5.1B,5.1V,4.8-5.4V,1W,DO-41	
RR1	2001-000118	R-CARBON(S);180ohm,5%,1/2W,AA,TP,2.4x6.4mm	
RR3	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR4	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR5	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
RR2	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
TR24	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
TR43	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
RC9	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
RC2	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
TC20	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
TC3	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
RC7	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012	
RC8	2203-001058	C-CERAMIC,CHIP;0.56nF,5%,50V,NPO,TP,2012	
RC4	2203-001524	C-CERAMIC,CHIP;47pF,5%,50V,NPO,TP,2012,-	
RC5	2203-001524	C-CERAMIC,CHIP;47pF,5%,50V,NPO,TP,2012,-	
RC1	2401-000907	C-AL;22UF,20%,16V,GP,-,5X11,2MM	
RC6	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
RX1	2801-003601	CRYSTAL-UNIT;4.332MHz,30ppm,28-AAM,30pF,	
RIC1	AH14-10008E	IC;BU1923F,SOP,+5V	

AH94-10015R ASSY-PCB,CD,MANU;CMS55HK/E, — S.N.A.

VVC1	0405-000137	DIODE-VARACTOR;KV-1260,20V,100NA,T0-92S	
TQ5	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
TQ6	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
TQ7	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
TR1	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR40	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR41	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR100	2001-000527	R-CARBON;22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
TR2	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	

Location no.	Code no.	Description & Specifiation	Remarks
TC100	2201-000389	C-CERAMIC,DISC;22pF,5%,50V,CH,TP,5.0*3.0,5	
LW	AH27-00007A	COIL-OSC;LKS7FB00-0060BLO-0,-,LW OSC	
OSC	AH27-00007A	COIL-OSC;LKS7FB00-0060BLO-0,-,LW OSC	
MW	AH27-00008A	COIL-OSC;LKS75M00-0060LMO-0,-,MW OSC	
OSC	AH27-00008A	COIL-OSC;LKS75M00-0060LMO-0,-,MW OSC	
ANT	AH27-00011A	COIL-OSC;LKS75M00-X000262-0,-,LW ANT	
LW	AH27-00011A	COIL-OSC;LKS75M00-X000262-0,-,LW ANT	
ANT	AH27-00012A	COIL-OSC;LKS75M00-X000263-0,365UH,MW ANT	
MW	AH27-00012A	COIL-OSC;LKS75M00-X000263-0,365UH,MW ANT	
FM	AH40-10025S	TUNER-FM;KST-F404VA-1,4G,75ohm	
PACK	AH40-10025S	TUNER-FM;KST-F404VA-1,4G,75ohm	
	AH92-00115A	**ASSY-PCB-FRONT;MAX945RH,FRONT**	**S.N.A.**
ULD17	0601-001232	LED;TR,LED,1PCS,130-260%	
ULD18	0601-001232	LED;TR,LED,1PCS,130-260%	
UIC3	0904-001316	IC-EXPANDER;M66010	
UIC4	1203-000276	IC-POSI.FIXED REG.;7805,TO-220,3P;-,PLASTIC,4.8/5	
UX2	2801-001394	CRYSTAL-UNIT;32.768KHz,20ppm,28-AAY,12.5pF,	
UX1	2802-000181	RESONATOR-CERAMIC;6MHZ,0.3%,BK,9.0X4.0X7.5MM	
VR	3406-001022	SWITCH-ROTARY;5V,0.5mA,24Pulse/no click,12mm	
JOG	3406-001023	SWITCH-ROTARY;5V,0.5mA,24detent/click,12mm	
UCW8	3708-000454	CONNECTOR-FPC/FC/PIC;22P1.25MM,STRAIGHT,	
UCW3	3710-001045	CONNECTOR-SOCKET;22P,1R,1.25MM,ANGLE,SN	
UCW2	3710-001046	CONNECTOR-SOCKET;10P,1R,1.25MM,ANGLE,SN	
UCW5	3711-000814	CONNECTOR-HEADER;BOX,2P,1R,2.5mm,ANGLE,SN	
URD1	AC59-60060A	MODULE-REMOCON;GP1U281R,SHARP,38KHZ,-,-,-,-	
VFD	AH07-00005A	V.F.DISPLAY;-,SVA-12MM25,MAX945D,-	
UIC1	AH09-10064P	IC-MICOM;LC86P6548-XXXX,100P,QFP,MAX945D,8BITS,-,	
UCW6	AH39-00019A	LEAD-CONNECTOR ASSY;-,GT201-11,35023,11P,150MM,1007#28	
UCW7	AH39-00020A	LEAD-CONNECTOR ASSY;-,GT201-13,35023,13P,150MM,1007#28	
UCW9	AH39-20007D	LEAD-CONNECTOR ASS'Y;51004,BS20,6P,200MM,1007#28	
UCW1	AH39-20012W	LEAD-CONNECTOR ASS'Y;SC25,JC25,2P,150MM,1007#26	
UD1	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD10	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD11	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD16	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD17	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD18	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD19	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD2	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD20	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD21	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD22	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD23	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD24	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD25	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD29	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD3	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD4	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD5	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD6	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD7	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD8	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD9	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
UD12	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
UD13	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
UD14	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
UD15	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
UQ1	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
UQ10	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
UQ11	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
UQ2	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
UQ3	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
UQ15	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,TP,160	
UQ16	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,TP,160	
UQ17	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,TP,160	
UQ7	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,TP,160	
UQ12	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-92,TP	
UQ13	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-92,TP	
UQ14	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-92,TP	
UQ18	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-92,TP	
UQ4	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-92,TP	
UQ5	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-92,TP	
UQ6	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-92,TP	
UQ8	0504-000122	TR-DIGITAL;KSR1009Y,NPN,300mW,4.7K,TO-92,	
UQ9	0504-000122	TR-DIGITAL;KSR1009Y,NPN,300mW,4.7K,TO-92,	
UQ19	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ20	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ21	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ22	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ23	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ24	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ25	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ26	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ27	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ28	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ29	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ30	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
UQ31	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
ULD1	0601-001218	LED;INVERTER,AMB,3mm,610nm	
ULD12	0601-001218	LED;INVERTER,AMB,3mm,610nm	
ULD15	0601-001218	LED;INVERTER,AMB,3mm,610nm	
ULD2	0601-001218	LED;INVERTER,AMB,3mm,610nm	
ULD20	0601-001218	LED;INVERTER,AMB,3mm,610nm	

Location no.	Code no.	Description & Specifiation	Remarks
ULD21	0601-001218	LED;INVERTER,AMB,3mm,610nm	
ULD22	0601-001218	LED;INVERTER,AMB,3mm,610nm	
ULD23	0601-001218	LED;INVERTER,AMB,3mm,610nm	
ULD3	0601-001218	LED;INVERTER,AMB,3mm,610nm	
ULD4	0601-001218	LED;INVERTER,AMB,3mm,610nm	
ULD6	0601-001218	LED;INVERTER,AMB,3mm,610nm	
ULD9	0601-001218	LED;INVERTER,AMB,3mm,610nm	
ULD10	0601-001232	LED;TR,LED,1PCS,130-260%	
ULD11	0601-001232	LED;TR,LED,1PCS,130-260%	
ULD13	0601-001232	LED;TR,LED,1PCS,130-260%	
ULD14	0601-001232	LED;TR,LED,1PCS,130-260%	
ULD16	0601-001232	LED;TR,LED,1PCS,130-260%	
ULD17	0601-001232	LED;TR,LED,1PCS,130-260%	
ULD18	0601-001232	LED;TR,LED,1PCS,130-260%	
ULD5	0601-001232	LED;TR,LED,1PCS,130-260%	
ULD7	0601-001232	LED;TR,LED,1PCS,130-260%	
ULD8	0601-001232	LED;TR,LED,1PCS,130-260%	
ULD19	0601-001238	LED;ROUND,RED,3.1mm,697nm	
UR170	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
UR126	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR127	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR57	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR58	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR72	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR73	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR125	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR26	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR71	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR124	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR25	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR67	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR116	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR122	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR123	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR28	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR29	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR36	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR61	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR65	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR69	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR108	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR109	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR110	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR113	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR161	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR162	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR163	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR96	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR10	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR11	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR111	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR12	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR130	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR154	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR155	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR156	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR157	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR18	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR30	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR32	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR35	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR55	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR56	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR60	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR62	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR63	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR7	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR8	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR9	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UXR1	2001-000295	R-CARBON;10MOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR68	2001-000319	R-CARBON;120KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR120	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR33	2001-000397	R-CARBON;180KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR1	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR2	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR38	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR53	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR70	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR76	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR77	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR80	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR81	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR14	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR149	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR150	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR151	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR152	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR153	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR158	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR159	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR160	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR27	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR59	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR6	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Location no.	Code no.	Description & Specifiation	Remarks
UR85	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR86	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR87	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR88	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR89	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR90	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR95	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR17	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR66	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR119	2001-000472	R-CARBON;2.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR4	2001-000508	R-CARBON;220KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR131	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR140	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR129	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR141	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR142	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR143	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR144	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR145	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR146	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR147	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR148	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR16	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR22	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR23	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR31	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR39	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR40	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR41	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR42	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR43	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR44	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR45	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR46	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR47	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR48	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR49	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR79	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR5	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR120	2001-000802	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
UR121	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR100	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR117	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR118	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR13	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR37	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR52	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR54	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR64	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR97	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR101	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR128	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR19	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR34	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR51	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR74	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR15	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR3	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR50	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR75	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR78	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR82	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR92	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM	
UR20	2003-000587	R-METAL OXIDE(S);22ohm,5%,1W,AA,TP,3.3x9mm	
UVR2	2103-000341	VR-SEMI;2Kohm,30%,1/10W,TOP	
UC17	2201-000247	C-CERAMIC,DISC;15pF,5%,50V,CH,TP,5x3,5	
UC18	2201-000247	C-CERAMIC,DISC;15pF,5%,50V,CH,TP,5x3,5	
UC26	2201-000300	C-CERAMIC,DISC;1NF,20%,50V,Y5T,TP,5X3,5	
UC21	2201-000397	C-CERAMIC,DISC;24pF,5%,50V,CH,TP,5.0x3.0,5	
UC19	2201-000423	C-CERAMIC,DISC;27pF,5%,50V,NPO,TP,5x3,2.5	
UC20	2201-000423	C-CERAMIC,DISC;27pF,5%,50V,NPO,TP,5x3,2.5	
UC22	2201-000426	C-CERAMIC,DISC;27pF,5%,50V,SL,TP,5x3,5	
UC101	2201-000565	C-CERAMIC,DISC;47nF,20%,50V,Y5V,12.5x4.0mm,5mm,TP	
UC15	2201-000565	C-CERAMIC,DISC;47nF,20%,50V,Y5V,12.5x4.0mm,5mm,TP	
UC27	2201-000565	C-CERAMIC,DISC;47nF,20%,50V,Y5V,12.5x4.0mm,5mm,TP	
UC29	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
UC6	2202-000809	C-CERAMIC,MLC-AXIAL;3.3NF,20%,16V,Y5R,TP,3.5X19,-	
UC13	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,30%,50V,Y5R,TP,3.5X1.9,-	
UC14	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,30%,50V,Y5R,TP,3.5X1.9,-	
UC2	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,30%,50V,Y5R,TP,3.5X1.9,-	
UC12	2401-000240	C-AL;100uF,20%,10V,GP,TP,5x11,5	
UXC1	2401-000244	C-AL;100uF,20%,10V,GP,TP,6.3x7,5	
UC16	2401-000475	C-AL;10UF,20%,50V,GP,-,5X11,2MM	
UC28	2401-000475	C-AL;10UF,20%,50V,GP,-,5X11,2MM	
UC23	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
UC24	2401-000918	C-AL;22uF,20%,16V,GP,-,6.3x7,5	
UC10	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
UC8	2401-001511	C-AL;47UF,20%,16V,GP,-,6X7,5	
UC30	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
UC5	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
UC100	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
UC25	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
UC7	2401-001917	C-AL;1UF,20%,50V,-,TP,5X7MM,5	
UC4	2401-001931	C-AL;220NF,20%,50V,-,TP,4X7MM,5	
UC11	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
UC3	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
UC9	2401-001952	C-AL;4.7UF,20%,50V,-,TP,6.3X7,5	
UC1	2409-000123	C-EDL;47000UF,4UA,5.5V,-,BK,-,5MM	
SW1	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW10	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW11	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW12	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW13	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW14	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW15	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW16	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW17	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW18	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW19	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW2	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW20	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW21	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW22	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW23	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW24	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW25	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW26	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW27	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW28	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW3	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW4	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW5	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW6	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW7	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW8	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
SW9	3404-000165	SWITCH-TACT;12V,50MA,160GF+-50GF,6X6MM,SPS	
		AH92-00115B ASSY-PCB-MAIN;MAX945DRH/AMF	**S.N.A.**
PBD1	0402-001258	DIODE-BRIDGE;GBU606,600V,6A,SIP-4,BK	
AQ17	0502-000303	TR-POWER;KSD882,NPN,1W,TO-126,TP,160-32	
AQ18	0502-000303	TR-POWER;KSD882,NPN,1W,TO-126,TP,160-32	
PQ7	0502-000407	TR-POWER;KTC4369Y,NPN,15W,TO-220,BK,120	
AQ11	0503-001013	TR-DARLINGTON;2SD2494,NPN,60W,TO-3P,BK,6500-20000	
AQ9	0503-001013	TR-DARLINGTON;2SD2494,NPN,60W,TO-3P,BK,6500-20000	
PQ1	0503-001014	TR-DARLINGTON;2SD2495-P,NPN,30W,TO-220F,BK,6500-20000	
AQ10	0503-001015	TR-DARLINGTON;2SB1625-P,PNP,60W,TO-3P,BK,6500-20000	
AQ8	0503-001015	TR-DARLINGTON;2SB1625-P,PNP,60W,TO-3P,BK,6500-20000	
DIC1	1201-000358	IC-PREAMP;22291,DIP,24P,-,DUAL,-,PLASTIC	
PICQ10	1203-000300	IC-POSI.FIXED REG.;7810,TO-220,3P,-,PLASTIC,9.6/1	
FIC4	1204-001465	IC-VOLUME/TONE CONT.;TDA7440D,SOP,28,18.	
AR1	2003-000390	R-METAL OXIDE(S);0.27OHM,5%,2W,AA,TP,4X12MM	
AR2	2003-000390	R-METAL OXIDE(S);0.27OHM,5%,2W,AA,TP,4X12MM	
AR24	2003-000390	R-METAL OXIDE(S);0.27OHM,5%,2W,AA,TP,4X12MM	
AR25	2003-000390	R-METAL OXIDE(S);0.27OHM,5%,2W,AA,TP,4X12MM	
PR8	2003-000429	R-METAL OXIDE(S);1.5Kohm,5%,2W,AA,TP,4x12mm	
PR32	2003-000690	R-METAL OXIDE(S);4.7ohm,5%,2W,AA,TP,4x12mm	
PR1	2003-000734	R-METAL OXIDE(S);560ohm,5%,2W,AA,TP,4x12mm	
CCW2	3711-003097	CONNECTOR-HEADER;NOWALL,10P,1R,1.25MM,ANGLE,SN	
CCW1	3711-003104	CONNECTOR-HEADER;NOWALL,22P,1R,1.25MM,ANGLE,SN	
DCW1	3711-003107	CONNECTOR-HEADER;BOX,3P,1R,2.5mm,STRAIGHT,SN	
DCW4	3711-003107	CONNECTOR-HEADER;BOX,3P,1R,2.5mm,STRAIGHT,SN	
DCW2	3711-003111	CONNECTOR-HEADER;BOX,6P,1R,2.5mm,-,BRAS	
FCW2	3711-004109	CONNECTOR-HEADER;3WALL,14P,1R,2mm,STRAIGHT,SN	
AJACK1	3716-000209	TERMINAL-BLOCK;,-,-,60V,7A	
HJACK1	3722-000363	JACK-PHONE;9P,6.4MM,AU,BLK,-	
FJACK	3722-000377	JACK-RCA;4P/2C,3.5MM,SN,BLK,#16~22	
DL4	AH26-10002G	TRANS-IF;IODT-N5002,BIAS-OSC,3.7MH,7.6X12.0,L6/10	
DL1	AH26-10002Y	COIL-TRAP;FB875-85A,BIAS-TRAP,35DB,8.0,180PF,85KHZ	
DL2	AH26-10002Y	COIL-TRAP;FB875-85A,BIAS-TRAP,35DB,8.0,180PF,85KHZ	
RL1	AH27-10001F	COIL-CHOKE;27UH,K,Q30,-,-,DR(6.5*7.5),-,-	
RL2	AH27-10001F	COIL-CHOKE;27UH,K,Q30,-,-,DR(6.5*7.5),-,-	
-	AH31-10020A	FAN-DC;D0620B-12M,12VDC/0.16A,	
FAN	AH31-10020A	FAN-DC;D0620B-12M,12VDC/0.16A,	
-	AH39-00004A	LEAD CONNECTOR-ASSY;-,5264,5395,9,250,2547#26	
PCW1	AH39-00018A	LEAD-CONNECTOR ASSY;-,5264,51088,6P,300MM,1007#22	
ACW1	AH39-20008R	LEAD-CONNECTOR ASS'Y;5264,5395,2P,400MM,1007#26	
AAD1	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
AAD2	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
AD1	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
AD3	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
AD4	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
AD5	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
DD1	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
DD2	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
DD3	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
DD5	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
DD6	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
FD10	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
FD2	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
JW102/GND	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
PD3	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
PD7	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
AD2	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
FD1	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	

Location no.	Code no.	Description & Specifiation	Remarks
PD1	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
PD2	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
PD4	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
PD6	0402-000151	DIODE-RECTIFIER;1N5392,100V,1.5A,DO-15,TP	
AD5	0402-000279	DIODE-RECTIFIER;1N60S,-45V,.05A,DO-7,TP	
PZD5	0403-000354	DIODE-ZENER;UZ5.1B,5.1V,4.8-5.4V,500mW,DO-	
PZD9	0403-000358	DIODE-ZENER;UZ5.6BSB,5.6V,5.46-5.7V,500	
FZD1	0403-000372	DIODE-ZENER;UZ9.1BM,9.1V,8.5-9.6V,500MW	
PZD4	0403-000377	DIODE-ZENER;UZP10B,10V,9.4-10.6V,1W,DO-41,	
PZD6	0403-000377	DIODE-ZENER;UZP10B,10V,9.4-10.6V,1W,DO-41,	
PZD7	0403-000377	DIODE-ZENER;UZP10B,10V,9.4-10.6V,1W,DO-41,	
PZD8	0403-000379	DIODE-ZENER;UZP12B,12V,11.4-12.6V,1W,DO-41	
PZD3	0403-000396	DIODE-ZENER;UZP6.8B,6.8V,6.4-7.2V,1W,DO-41	
PZD1	0403-000564	DIODE-ZENER;TZP16A,16V,15.3-17.1V,1W,DO-41	
PZD2	0403-000564	DIODE-ZENER;TZP16A,16V,15.3-17.1V,1W,DO-41	
DQ22	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,TP,120	
DQ7	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,TP,120	
DQ8	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,TP,120	
DQ9	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,TP,120	
FQ4	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,TP,120	
PQ3	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,TP,120	
PQ5	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,TP,120	
PQ6	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,TP,120	
AQ12	0501-000294	TR-SMALL SIGNAL;KSA708-Y,PNP,800mW,TO-92,TP,12	
AQ4	0501-000294	TR-SMALL SIGNAL;KSA708-Y,PNP,800mW,TO-92,TP,12	
PQ10	0501-000294	TR-SMALL SIGNAL;KSA708-Y,PNP,800mW,TO-92,TP,12	
PQ8	0501-000294	TR-SMALL SIGNAL;KSA708-Y,PNP,800mW,TO-92,TP,12	
PQ17	0501-000331	TR-SMALL SIGNAL;KSC1009-Y,NPN,800mW,TO-92,-,12	
AQ19	0501-000354	TR-SMALL SIGNAL;KSC1845-F,NPN,500mW,TO-92,TP,3	
AQ2	0501-000354	TR-SMALL SIGNAL;KSC1845-F,NPN,500mW,TO-92,TP,3	
AQ20	0501-000354	TR-SMALL SIGNAL;KSC1845-F,NPN,500mW,TO-92,TP,3	
AQ3	0501-000354	TR-SMALL SIGNAL;KSC1845-F,NPN,500mW,TO-92,TP,3	
DQ5	0501-000369	TR-SMALL SIGNAL;KSC2331-Y,NPN,1W,TO-92L,-,120-	
-	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
AAQ1	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
AAQ2	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
AQ23	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
DQ13	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
DQ21	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
DQ6	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
EQ1	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
AQ13	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
AQ15	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
AQ16	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
AQ5	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
DQ17	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
DQ18	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
DQ19	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
DQ20	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
PQ12	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
AQ22	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,TP,160	
DQ4	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,TP,160	
PQ11	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,TP,160	
PQ15	0501-000610	TR-SMALL SIGNAL;KSA928A-Y,PNP,1W,TO-92L,TP,160	
AQ14	0501-002188	TR-SMALL SIGNAL;KSA992,PNP,500mW,TO-92,TP,300-	
AQ6	0501-002188	TR-SMALL SIGNAL;KSA992,PNP,500mW,TO-92,TP,300-	
FQ7	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-92,TP	
FQ8	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-92,TP	
PQ13	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-92,TP	
PQ9	0504-000118	TR-DIGITAL;KSR1003,NPN,300MW,22K/22K,TO-92,TP	
FQ2	0504-000122	TR-DIGITAL;KSR1009Y,NPN,300mW,4.7K,TO-92,	
FQ3	0504-000122	TR-DIGITAL;KSR1009Y,NPN,300mW,4.7K,TO-92,	
PQ18	0504-000122	TR-DIGITAL;KSR1009Y,NPN,300mW,4.7K,TO-92,	
DQ1	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
DQ10	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
DQ2	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
FQ1	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
FQ5	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
FQ6	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
PQ14	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
PQ16	0504-001003	TR-DIGITAL;KSR2003,PNP,300MW,22K/22K,TO-92,TP	
FIC3	1001-001065	IC-ANALOG SWITCH;NJU4066BM,CMOS,DMP,14P,	
FIC1	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL,100V/mV,PLASTIC,	
FIC2	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL,100V/mV,PLASTIC,	
FIC5	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL,100V/mV,PLASTIC,	
AR19	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
AR30	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
AR50	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
AR8	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
DR13	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
DR52	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8x3.2mm	
DR55	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR6	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR37	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR40	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR41	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR43	2001-000008	R-CARBON;15KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR28	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4MM	
AR5	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4MM	
DR69	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4MM	
PR14	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4MM	
AR10	2001-000052	R-CARBON(S);3.3KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
AR32	2001-000052	R-CARBON(S);3.3KOHM,5%,1/2W,AA,TP,2.4X6.4MM	

Location no.	Code no.	Description & Specifiation	Remarks
PR6	2001-000052	R-CARBON(S);3.3KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
PR25	2001-000109	R-CARBON(S);470OHM,5%,1/2W,AA,TP,2.4X6.4MM	
PR16	2001-000117	R-CARBON(S);68OHM,5%,1/2W,AA,TP,2.4X6.4MM	
AR22	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR42	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR19	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR20	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR21	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR24	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR100	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR28	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SR6	2001-000241	R-CARBON;1.5KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR3	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR59	2001-000258	R-CARBON;1.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR15	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR40	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR9	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR53	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR37	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SR3	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR16	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR47	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR49	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CR2	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CR3	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR30	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR31	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR50	2001-000281	R-CARBON;100OHM,5%,1/8W,AA,TP,1.8X3.2MM	
CR10	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DD7	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR15	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR48	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR49	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR50	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR67/DC	51 2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR68	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR72	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR80	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ER11	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ER3	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ER4	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR10	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR2	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR25	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR26	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR27	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR34	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR4	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR51	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR80	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR9	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
J157/FC	42 2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR11	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR12	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR15	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR18	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR36	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR7	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR21	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR12	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR4	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR9	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR10	2001-000331	R-CARBON;12KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR19	2001-000397	R-CARBON;180KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR73	2001-000397	R-CARBON;180KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR43	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR6	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ER5	2001-000411	R-CARBON;18KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR14	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR18	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR22	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR27	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR34	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR39	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR4	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR42	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR48	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR57	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR76	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR56	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR4	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR19	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR50	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR25	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR27	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR28	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR29	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR30	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR31	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR42	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR43	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR75	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR77	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	

Location no.	Code no.	Description & Specifiation	Remarks
ER7	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR1	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR11	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR26	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR29	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR52	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR6	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR8	2001-000515	R-CARBON;220OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR54	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR24	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ER8	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR12	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR32	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR33	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR38	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR39	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR13	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR17	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR21	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR35	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR5	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR9	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR17	2001-000527	R-CARBON;22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR46	2001-000527	R-CARBON;22OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR22	2001-000548	R-CARBON;270KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR23	2001-000548	R-CARBON;270KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR38	2001-000563	R-CARBON;27KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR55	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR56	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR11	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR20	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR5	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR58	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR70	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR37	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR40	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR55	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR71	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR80	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SR7	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR1	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR61	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR27	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR54	2001-000708	R-CARBON;39OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR20	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR41	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR14	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR23	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR41	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR67	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ER1	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ER10	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ER12	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ER13	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR13	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR18	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR3	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR38	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR39	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR54	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR20	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SR5	2001-000734	R-CARBON;4.7KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR66	2001-000773	R-CARBON;470KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR31	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR52	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR53	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR9	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR10	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR26	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR44	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR47	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR56	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR63	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR7	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR15	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR17	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR28	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR29	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR42	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR44	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR48	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR49	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR5	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR7	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR30	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR33	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
SR1	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR65	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
FR4	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR24	2001-000793	R-CARBON;47OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR20	2001-000802	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
AR4	2001-000802	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
DR53	2001-000802	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	

Location no.	Code no.	Description & Specifiation	Remarks
FR46	2001-000802	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
FR47	2001-000802	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
AR12	2001-000864	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR17	2001-000864	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR35	2001-000864	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR46	2001-000864	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR64	2001-000864	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR8	2001-000864	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR51	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR74	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
ER18	2001-000890	R-CARBON;6.8KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR13	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR36	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR16	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR45	2001-000924	R-CARBON;680OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR54	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR18	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR74	2001-000977	R-CARBON;8.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR29	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
AR7	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR19	2001-000995	R-CARBON;820OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR2	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DR60	2001-001006	R-CARBON;82OHM,5%,1/8W,AA,TP,1.8X3.2MM	
PR29	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
DR33	2001-001096	R-CARBON(S);2.2OHM,5%,1/2W,AA,TP,2.4X6.4MM	
AR11	2001-001107	R-CARBON(S);220ohm,5%,1/2W,AA,TP,2.4x6.4mm	
AR33	2001-001107	R-CARBON(S);220ohm,5%,1/2W,AA,TP,2.4x6.4mm	
PR2	2001-001153	R-CARBON(S);47ohm,5%,1/2W,AA,TP,2.4x6.4mm	
PR3	2001-001153	R-CARBON(S);47ohm,5%,1/2W,AA,TP,2.4x6.4mm	
AR44	2001-001192	R-CARBON(S);820OHM,5%,1/2W,AA,TP,2.4X6.4MM	
AR45	2001-001192	R-CARBON(S);820OHM,5%,1/2W,AA,TP,2.4X6.4MM	
AR26	2003-000468	R-METAL OXIDE(S);10ohm,5%,1W,AA,TP,3.3x9mm	
AR3	2003-000468	R-METAL OXIDE(S);10ohm,5%,1W,AA,TP,3.3x9mm	
PR34	2003-000468	R-METAL OXIDE(S);10ohm,5%,1W,AA,TP,3.3x9mm	
PFR1	2003-000542	R-METAL OXIDE(S);1ohm,5%,1W,AA,TP,3.3x9mm	
DVR1	2103-000248	VR-SEMI;200KOHM,30%,1/10W,TOP	
DVR2	2103-000248	VR-SEMI;200KOHM,30%,1/10W,TOP	
DVR4	2103-000492	VR-SEMI;5KOHM,30%,1/10W,TOP	
FC29	2201-000368	C-CERAMIC,DISC;220PF,10%,50V,SL,TP,6.5X3.0,5	
FC30	2201-000368	C-CERAMIC,DISC;220PF,10%,50V,SL,TP,6.5X3.0,5	
AC12	2201-000653	C-CERAMIC,DISC;68pF,5%,50V,SL,TP,4.0X3.5mm,2.	
AC23	2201-000653	C-CERAMIC,DISC;68pF,5%,50V,SL,TP,4.0X3.5mm,2.	
FC23	2202-000263	C-CERAMIC,MLC-AXIAL;470pF,10%,50V,Y5P,TP,3.5x19,-	
DC21	2202-000715	C-CERAMIC,MLC-AXIAL;1.2nF,20%,16V,Y5R,TP,3.5x19,7.	
DC31	2202-000715	C-CERAMIC,MLC-AXIAL;1.2nF,20%,16V,Y5R,TP,3.5x19,7.	
FC22	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,3.5X19,-	
FC24	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,3.5X19,-	
AAC26	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
AAC27	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
DC11	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
DC15	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
DC42	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
DC55	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
DC56	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
DC9	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
FC46	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
FC47	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
FTC1	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
FTC2	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
FTC3	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
FTC4	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
FTC8	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
FTC9	2202-000781	C-CERAMIC,MLC-AXIAL;100pF,10%,50V,Y5P,TP,3.5x19,-	
DC3	2202-000796	C-CERAMIC,MLC-AXIAL;1nF,10%,50V,Y5P,TP,3.5x19,-	
-	2202-000806	C-CERAMIC,MLC-AXIAL;220pF,10%,50V,Y5P,TP,3.5x19,-	
DC52	2202-000806	C-CERAMIC,MLC-AXIAL;220pF,10%,50V,Y5P,TP,3.5x19,-	
DC53	2202-000806	C-CERAMIC,MLC-AXIAL;220pF,10%,50V,Y5P,TP,3.5x19,-	
FC1	2202-000806	C-CERAMIC,MLC-AXIAL;220pF,10%,50V,Y5P,TP,3.5x19,-	
FC6	2202-000806	C-CERAMIC,MLC-AXIAL;220pF,10%,50V,Y5P,TP,3.5x19,-	
CC3	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,TP,3.5X19	
DC26	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,TP,3.5X19	
FC10	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,TP,3.5X19	
FC12	2202-000807	C-CERAMIC,MLC-AXIAL;22NF,+80-20%,25V,Y5V,TP,3.5X19	
AC20	2202-000817	C-CERAMIC,MLC-AXIAL;4.7NF,20%,16V,Y5R,TP,3.5X19,-	
AC21	2202-000817	C-CERAMIC,MLC-AXIAL;4.7NF,20%,16V,Y5R,TP,3.5X19,-	
FTC6	2202-000817	C-CERAMIC,MLC-AXIAL;4.7NF,20%,16V,Y5R,TP,3.5X19,-	
FTC7	2202-000817	C-CERAMIC,MLC-AXIAL;4.7NF,20%,16V,Y5R,TP,3.5X19,-	
AAC28	2202-000820	C-CERAMIC,MLC-AXIAL;5.6NF,20%,16V,Y5R,TP,3.5X19,-	
AAC29	2202-000820	C-CERAMIC,MLC-AXIAL;5.6NF,20%,16V,Y5R,TP,3.5X19,-	
DC20	2202-000847	C-CERAMIC,MLC-AXIAL;1,8NF,30%,50V,Y5S,TP,3.5X1.9	
DC21	2202-000847	C-CERAMIC,MLC-AXIAL;1,8NF,30%,50V,Y5S,TP,3.5X1.9	
DC30	2202-000847	C-CERAMIC,MLC-AXIAL;1,8NF,30%,50V,Y5S,TP,3.5X1.9	
DC31	2202-000847	C-CERAMIC,MLC-AXIAL;1,8NF,30%,50V,Y5S,TP,3.5X1.9	
DC57	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,30%,50V,Y5R,TP,3.5X1.9,-	
FTC5	2202-000854	C-CERAMIC,MLC-AXIAL;47NF,30%,50V,Y5R,TP,3.5X1.9,-	
DC25	2301-000365	C-FILM,PEF;1.5nF,10%,50V,TP,5.5x7x2.8mm,5	
DC22	2301-000379	C-FILM,PEF;10NF,10%,50V,TP,6X7X3.2MM,5MM	
FC33	2301-000379	C-FILM,PEF;10NF,10%,50V,TP,6X7X3.2MM,5MM	
DC18	2301-000390	C-FILM,PEF;15NF,10%,50V,TP,6.5X9X3.5MM,5M	
DC23	2301-000390	C-FILM,PEF;15NF,10%,50V,TP,6.5X9X3.5MM,5M	
DC35	2301-000390	C-FILM,PEF;15NF,10%,50V,TP,6.5X9X3.5MM,5M	
DC34	2301-000393	C-FILM,PEF;18NF,10%,50V,TP,6.5X12.5X3.5MM	
DC8	2301-000393	C-FILM,PEF;18NF,10%,50V,TP,6.5X12.5X3.5MM	

Location no.	Code no.	Description & Specifiation	Remarks
DC4	2301-000400	C-FILM,PEF;1NF,10%,50V,TP,5X7X2.8MM,5MM	
DC44	2301-000400	C-FILM,PEF;1NF,10%,50V,TP,5X7X2.8MM,5MM	
DC59	2301-000404	C-FILM,PEF;2.2NF,10%,50V,TP,5.5X7X3.2MM,5	
DC17	2301-000407	C-FILM,PEF;2.7NF,10%,50V,TP,5.5X7X3MM,5MM	
DC50	2301-000407	C-FILM,PEF;2.7NF,10%,50V,TP,5.5X7X3MM,5MM	
FC38	2301-000407	C-FILM,PEF;2.7NF,10%,50V,TP,5.5X7X3MM,5MM	
FC39	2301-000407	C-FILM,PEF;2.7NF,10%,50V,TP,5.5X7X3MM,5MM	
FC10	2301-000412	C-FILM,PEF;22NF,10%,50V,TP,6.5X10.5X4MM,5	
FC12	2301-000412	C-FILM,PEF;22NF,10%,50V,TP,6.5X10.5X4MM,5	
FC13	2301-000412	C-FILM,PEF;22NF,10%,50V,TP,6.5X10.5X4MM,5	
DC17	2301-000426	C-FILM,PEF;3.9NF,10%,50V,TP,5.5X12X3,3MM	
DC50	2301-000426	C-FILM,PEF;3.9NF,10%,50V,TP,5.5X12X3,3MM	
AC10	2301-000442	C-FILM,PEF;4.7NF,10%,50V,TP,5.5X7X3MM,5MM	
AC9	2301-000442	C-FILM,PEF;4.7NF,10%,50V,TP,5.5X7X3MM,5MM	
PC23	2301-000449	C-FILM,PEF;47NF,10%,50V,TP,8X11X4.5MM,5MM	
DC37	2301-000474	C-FILM,PEF;8.2NF,10%,50V,TP,6.5X12X3.5,3.	
DC5	2301-000474	C-FILM,PEF;8.2NF,10%,50V,TP,6.5X12X3.5,3.	
AC11	2303-000312	C-FILM,PPF;100nF,5%,63V,TP,7.5x12.5x3.5,5	
AC8	2303-000312	C-FILM,PPF;100nF,5%,63V,TP,7.5x12.5x3.5,5	
DC12	2303-000312	C-FILM,PPF;100nF,5%,63V,TP,7.5x12.5x3.5,5	
DC38	2303-000312	C-FILM,PPF;100nF,5%,63V,TP,7.5x12.5x3.5,5	
FC35	2303-000312	C-FILM,PPF;100nF,5%,63V,TP,7.5x12.5x3.5,5	
FC36	2303-000312	C-FILM,PPF;100nF,5%,63V,TP,7.5x12.5x3.5,5	
FC37	2303-000312	C-FILM,PPF;100nF,5%,63V,TP,7.5x12.5x3.5,5	
FC38	2303-000312	C-FILM,PPF;100nF,5%,63V,TP,7.5x12.5x3.5,5	
PC3	2401-000230	C-AL;100uF,20%,100V,GP,TP,12.5x20,5	
DC2	2401-000240	C-AL;100uF,20%,10V,GP,TP,5x11,5	
DC36	2401-000240	C-AL;100uF,20%,10V,GP,TP,5x11,5	
AC15	2401-000303	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
AC3	2401-000303	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
AC17	2401-000357	C-AL;100UF,20%,50V,GP,-,8X11.5,3.5M	
AC18	2401-000357	C-AL;100UF,20%,50V,GP,-,8X11.5,3.5M	
AC5	2401-000357	C-AL;100UF,20%,50V,GP,-,8X11.5,3.5M	
PC4	2401-000357	C-AL;100UF,20%,50V,GP,-,8X11.5,3.5M	
AC25	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
FC40	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,2MM	
PC101	2401-000475	C-AL;10UF,20%,50V,GP,-,5X11,2MM	
DC51	2401-000795	C-AL;220UF,20%,16V,GP,-,8X11.5,3.5M	
PC15	2401-000795	C-AL;220UF,20%,16V,GP,-,8X11.5,3.5M	
PC25	2401-000795	C-AL;220UF,20%,16V,GP,-,8X11.5,3.5M	
PC18	2401-000830	C-AL;220uF,20%,25V,GP,TP,8x11.5,5	
AC18	2401-000871	C-AL;220UF,20%,50V,GP,-,10X16MM,5MM	
AC6	2401-000871	C-AL;220UF,20%,50V,GP,-,10X16MM,5MM	
DC13	2401-001022	C-AL;3.3UF,20%,50V,GP,-,5X11,2MM	
DC16	2401-001022	C-AL;3.3UF,20%,50V,GP,-,5X11,2MM	
DC32	2401-001022	C-AL;3.3UF,20%,50V,GP,-,5X11,2MM	
DC41	2401-001022	C-AL;3.3UF,20%,50V,GP,-,5X11,2MM	
DC47	2401-001022	C-AL;3.3UF,20%,50V,GP,-,5X11,2MM	
DC7	2401-001022	C-AL;3.3UF,20%,50V,GP,-,5X11,2MM	
AC19	2401-001080	C-AL;330nF,20%,50V,GP,-,5x11,2mm	
AC2	2401-001080	C-AL;330nF,20%,50V,GP,-,5x11,2mm	
DC1	2401-001080	C-AL;330nF,20%,50V,GP,-,5x11,2mm	
DC45	2401-001080	C-AL;330nF,20%,50V,GP,-,5x11,2mm	
DC33	2401-001538	C-AL;47UF,20%,25V,GP,-,6X11,2.5MM	
DC6	2401-001538	C-AL;47UF,20%,25V,GP,-,6X11,2.5MM	
PC16	2401-001538	C-AL;47UF,20%,25V,GP,-,6X11,2.5MM	
PC17	2401-001538	C-AL;47UF,20%,25V,GP,-,6X11,2.5MM	
PC19	2401-001538	C-AL;47UF,20%,25V,GP,-,6X11,2.5MM	
PC22	2401-001538	C-AL;47UF,20%,25V,GP,-,6X11,2.5MM	
PC24	2401-001538	C-AL;47UF,20%,25V,GP,-,6X11,2.5MM	
PC7	2401-001538	C-AL;47UF,20%,25V,GP,-,6X11,2.5MM	
PC9	2401-001538	C-AL;47UF,20%,25V,GP,-,6X11,2.5MM	
AAC1	2401-001572	C-AL;47UF,20%,50V,GP,-,6.3X11,2.5MM	
AAC3	2401-001572	C-AL;47UF,20%,50V,GP,-,6.3X11,2.5MM	
PC10	2401-001572	C-AL;47UF,20%,50V,GP,-,6.3X11,2.5MM	
PC21	2401-001572	C-AL;47UF,20%,50V,GP,-,6.3X11,2.5MM	
DC24	2401-001895	C-AL;100uF,20%,16V,GP,6.3x11mm,2.5m	
AC19	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
AC7	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
DC28	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
DC54	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
FC11	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
FC43	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
FC9	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
PAC1	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
PC4	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
PC55	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
AC15	2401-001938	C-AL;22UF,20%,25V,GP,BK,5X11MM,2MM	
AC3	2401-001938	C-AL;22UF,20%,25V,GP,BK,5X11MM,2MM	
AC1	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
AC16	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
DC40	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
FC2	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
FC3	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
FC4	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
FC41	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
FC42	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
FC45	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
FC5	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
PC14	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
PC25	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
PC6	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
DC14	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
DC43	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
DC51	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
FC15	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
FC16	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
FC44	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
PC8	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
FC20	2401-001989	C-AL;4.7uF,20%,50V,BP,TP,5x11,5	
FC21	2401-001989	C-AL;4.7uF,20%,50V,BP,TP,5x11,5	
DC10	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
DC39	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
DC48	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
DC49	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
FC25	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
FC26	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
FC27	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
FC28	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
FC31	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
FC32	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
PC1	2401-002258	C-AL;4700UF,20%,50V,GP,BK,22X40MM,5	
PC2	2401-002258	C-AL;4700UF,20%,50V,GP,BK,22X40MM,5	
PL1	2701-000116	INDUCTOR-AXIAL;10uH,10%,4.2x9.8mm	
AL3	2701-000298	INDUCTOR-AXIAL;470uH,10%,4.2x9.8mm	
DL3	2701-000298	INDUCTOR-AXIAL;470uH,10%,4.2x9.8mm	
DL4	2701-000298	INDUCTOR-AXIAL;470uH,10%,4.2x9.8mm	
RF1	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM	
RF2	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM	
AFUSE1	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4MM,1/0.5MM,-,-	
AFUSE2	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4MM,1/0.5MM,-,-	
PQ12	AC14-12001G	IC;KA78L05,T,-	
		AH92-00115D ASSY-RDS NO MIC;MAX945D NO A/S	**S.N.A.**
OC1	2201-000381	C-CERAMIC,DISC;22NF,20%,50V,Y5V,8.0x4.0mm,5mm,TP	
OC3	2201-000487	C-CERAMIC,DISC;33pF,5%,50V,SL,TP,5x3,5m	
OC4	2201-000504	C-CERAMIC,DISC;39pF,5%,50V,SL,TP,-,5	
OC2	2401-000240	C-AL;100uF,20%,10V,GP,TP,5x11,5	
OF1	2901-001139	FILTER-EMI ON BOARD;50V,.5A,-,390PF,7X2.5X5MM,TP,RADIAL	
BEAD1	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,2900G	
BEAD2	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,2900G	
BEAD3	3301-000297	CORE-FERRITE BEAD;AA,3.6X1.2X5.7MM,1400,2900G	
OJACK1	3707-001005	CONNECTER-OPTICAL;PLUG,SM,-,4.4/2.0MM	
OCW1	3711-000907	CONNECTOR-HEADER;BOX,3P,1R,2mm,STRAIGHT,SN	
FR11	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4MM,1/0.5MM,-,-	
J183	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4MM,1/0.5MM,-,-	
J185	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4MM,1/0.5MM,-,-	
J85	3811-000389	WIRE-NO SHEATH CU;SPCW,300V,52.4MM,1/0.5MM,-,-	
OIC1	AH14-10004R	IC;M74HCU04,SOP,TAPE 14P	
RDS	AH39-00023A	LEAD CONNECTOR-ASSY;-,51004-03,51004-03,03P,300MM,2547#28	
WIRE	AH39-00023A	LEAD CONNECTOR-ASSY;-,51004-03,51004-03,03P,300MM,2547#28	
		AH92-00115E ASSY-MAIN CE OPT;MAX945D NO A/S	**S.N.A.**
	13954-100-310	CERAMIC-PIPE;PI1.4 15MM WHT	
ER12	2201-000144	C-CERAMIC,DISC;100pF,5%,50V,CH,TP,8x3,5	
ER13	2201-000144	C-CERAMIC,DISC;100pF,5%,50V,CH,TP,8x3,5	
AAC2	2201-000205	C-CERAMIC,DISC;10PF,5%,50V,RH,TP,5X3,5	
AAC4	2201-000205	C-CERAMIC,DISC;10PF,5%,50V,RH,TP,5X3,5	
AC10	2201-000547	C-CERAMIC,DISC;4.7nF,20%,500V,Y5T,TP,8x3,5	
AC9	2201-000547	C-CERAMIC,DISC;4.7nF,20%,500V,Y5T,TP,8x3,5	
FTC6	2201-000557	C-CERAMIC,DISC;470pF,10%,50V,SL,TP,8x3,5	
FTC7	2201-000557	C-CERAMIC,DISC;470pF,10%,50V,SL,TP,8x3,5	
FAC1	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-	
FAC2	2202-000231	C-CERAMIC,MLC-AXIAL;330pF,10%,50V,Y5P,TP,3.5x19,-	
AC20	2202-000850	C-CERAMIC,MLC-AXIAL;2.2NF,30%,16V,Y5R,TP,3.5X1.9,-	
AC21	2202-000850	C-CERAMIC,MLC-AXIAL;2.2NF,30%,16V,Y5R,TP,3.5X1.9,-	
	AH27-90001A	COIL-SPRING;,2.2UH,-,-,SPRING	
		AH92-00116A ASSY-PCB-SUB;MAX945RH,SUB	**S.N.A.**
		AH92-00126A ASSY-OPT PCB-SUB;MAX945RH,SUB	**S.N.A.**
THQ2	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,TP,120	
THQ3	0501-000010	TR-SMALL SIGNAL;KSC1008,NPN,800mW,TO-92,TP,120	
THQ1	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,TP,120-	
THQ4	0502-000303	TR-POWER;KSD882,NPN,1W,TO-126,TP,160-32	
THR1	2001-000003	R-CARBON;330ohm,5%,1/8W,AA,TP,1.8X3.2mm	
THR2	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
THR5	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
THR6	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
THR7	2001-000613	R-CARBON;3.9KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
THR4	2001-000802	R-CARBON;5.6Kohm,5%,1/8W,AA,TP,1.8x3.2m	
TWA2	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5mm,STRAIGHT,SN	
TCW6	AH39-20008Y	LEAD-CONNECTOR ASS'Y;5264,5395,3P,250MM,1061#26	
		AH94-00097A ASSY-MANU-SUB;MAX945RH,	**S.N.A.**
LD5	0402-000450	DIODE-BRIDGE;PBL403,200V,4.0A,DIP-4	
LD4	0402-001258	DIODE-BRIDGE;GBU606,600V,6A,SIP-4,BK	
LIC3	1201-000339	IC-POWER AMP;4132,SIP,18P,-,DUAL,-,PLASTIC,	
LIC6	1203-001006	IC-VOLTAGE REGULATOR;78R05,TO-220F,4P,-,PLASTIC,4.8	
LIC7	1203-001006	IC-VOLTAGE REGULATOR;78R05,TO-220F,4P,-,PLASTIC,4.8	
LIC8	1203-001543	IC-VOLTAGE REGULATOR;78R33,T0-220,4P,400MIL,PLASTIC	
LIC5	1203-001697	IC-VOLTAGE REGULATOR;78R08,T0-220,4P,PLASTIC,7.8V/8.2V	
LR105	2003-000556	R-METAL OXIDE(S);2.2ohm,5%,2W,AA,TP,4x12mm	
LR76	2003-000556	R-METAL OXIDE(S);2.2ohm,5%,2W,AA,TP,4x12mm	
LR80	2003-000556	R-METAL OXIDE(S);2.2ohm,5%,2W,AA,TP,4x12mm	

Location no.	Code no.	Description & Specifiation	Remarks
	2003-000650	R-METAL OXIDE(S);330ohm,5%,2W,AA,TP,4x12mm	
LR78	2003-000690	R-METAL OXIDE(S);4.7ohm,5%,2W,AA,TP,4x12mm	
-	2401-001052	C-AL;3300UF,20%,25V,GP,-,16X31.5,7.	
LC48	2401-001052	C-AL;3300UF,20%,25V,GP,-,16X31.5,7.	
LC27	2401-001633	C-AL;6800uF,20%,25V,GP,BK,18x35.5,7	
LC41	2401-001883	C-AL;1000UF,20%,25V,GP,BK,16X25MM,5	
LC26	2401-001928	C-AL;2200UF,20%,35V,GP,BK,16X31MM,7	
LC28	2401-001928	C-AL;2200UF,20%,35V,GP,BK,16X31MM,7	
-	3601-000263	FUSE-FERRULE;250V,3.15A,TL,GLASS,5x20mm	
LFUSE1	3601-000263	FUSE-FERRULE;250V,3.15A,TL,GLASS,5x20mm	
LFUSE2	3601-000263	FUSE-FERRULE;250V,3.15A,TL,GLASS,5x20mm	
LFUSE3	3601-000263	FUSE-FERRULE;250V,3.15A,TL,GLASS,5x20mm	
PJ1	3711-000190	CONNECTOR-HEADER;1WALL,2P,1R,7.92MM,STRAIGHT,SN	
LCW6	3711-003107	CONNECTOR-HEADER;BOX,3P,1R,2.5mm,STRAIGHT,SN	
LJACK1	3722-000377	JACK-RCA;4P/2C,3.5MM,SN,BLK,#16~22	
LJACK2	3722-001011	JACK-RCA;2P,3.5MM,NI,BLK,-	
PL1	AH27-10001F	COIL-CHOKE;27UH,K,Q30,-,-,DR(6.5*7.5),-,-,	
PL2	AH27-10001F	COIL-CHOKE;27UH,K,Q30,-,-,DR(6.5*7.5),-,-,	
LL1	AH27-90001A	COIL-SPRING;,2.2UH,-,-,SPRING	
LL2	AH27-90001A	COIL-SPRING;,2.2UH,-,-,SPRING	
LJACK3	AH37-00005A	JACK--RCA;1P,S-440B,YELLOW,-,SHIELD PLATE	
LCW9	AH61-40022A	STUD-TAP;SPC1,T0.5,BT2,-,-,	
LIC4	1204-001472	IC AUDIO PROCESSOR;M62463FP,QFP,64P,-,PL	
LR37	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
LR38	2007-000030	R-CHIP;560OHM,5%,1/10W,DA,TP,2012	
LR23	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
LR100	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
LR72	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
LR73	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
LR74	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
LR75	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
LR79	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
LR81	2007-000300	R-CHIP;10KOHM,5%,1/10W,DA,TP,2012	
LR15	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
LR18	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
LR31	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
LR35	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
LR98	2007-000493	R-CHIP;2.2KOHM,5%,1/10W,DA,TP,2012	
LR1	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
LR101	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
LR102	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
LR2	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
LR201	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
LR3	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
LR4	2007-000586	R-CHIP;22KOHM,5%,1/10W,DA,TP,2012	
LR202	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	
LR14	2007-000778	R-CHIP;330Kohm,5%,1/10W,DA,TP,2012	
LR16	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
LR19	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
LR21	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
LR22	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
LR5	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
LR97	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
LR99	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
LR204	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
LR62	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	
LR72	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	
LR96	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	
LR17	2007-001141	R-CHIP;7.5KOHM,5%,1/10W,DA,TP,2012	
LR20	2007-001141	R-CHIP;7.5KOHM,5%,1/10W,DA,TP,2012	
LC60	2203-000206	C-CERAMIC,CHIP;100NF,10%,50V,X7R,TP,2012	
LC62	2203-000206	C-CERAMIC,CHIP;100NF,10%,50V,X7R,TP,2012	
LC64	2203-000206	C-CERAMIC,CHIP;100NF,10%,50V,X7R,TP,2012	
LC65	2203-000206	C-CERAMIC,CHIP;100NF,10%,50V,X7R,TP,2012	
LC66	2203-000206	C-CERAMIC,CHIP;100NF,10%,50V,X7R,TP,2012	
LC69	2203-000206	C-CERAMIC,CHIP;100NF,10%,50V,X7R,TP,2012	
LC70	2203-000206	C-CERAMIC,CHIP;100NF,10%,50V,X7R,TP,2012	
LC74	2203-000206	C-CERAMIC,CHIP;100NF,10%,50V,X7R,TP,2012	
LC75	2203-000206	C-CERAMIC,CHIP;100NF,10%,50V,X7R,TP,2012	
LC93	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NPO,TP,2012	
LC94	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NPO,TP,2012	
LC95	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NPO,TP,2012	
LC91	2203-000477	C-CERAMIC,CHIP;1uF,+80-20%,16V,Y5V,TP,2012,-	
LC73	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
LC77	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
LC78	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
LC79	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
LC68	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,TP,2012	
LC76	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,TP,2012	
LC96	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,TP,2012	
LC97	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,TP,2012	
LC98	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,TP,2012	
LC99	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,TP,2012	
LC84	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,TP,2012,-	
LC87	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,TP,2012,-	
LC100	2203-000953	C-CERAMIC,CHIP;0.47nF,5%,50V,NPO,TP,2012	
LC101	2203-000953	C-CERAMIC,CHIP;0.47nF,5%,50V,NPO,TP,2012	
LC71	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012	
LC72	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012	
LC82	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012	
LC92	2203-000979	C-CERAMIC,CHIP;47NF,10%,50V,X7R,TP,2012	
LC81	2203-001036	C-CERAMIC,CHIP;5.6NF,10%,50V,X7R,TP,2012,-	
LC61	2203-001105	C-CERAMIC,CHIP;6.8NF,10%,50V,X7R,TP,2012	
LC63	2203-001132	C-CERAMIC,CHIP;0.68nF,5%,50V,NPO,TP,2012	
LC67	2203-001132	C-CERAMIC,CHIP;0.68nF,5%,50V,NPO,TP,2012	
LC83	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,TP,2012	
LC90	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,TP,2012	
LC80	2203-005564	C-CERAMIC,CHIP;680NF,10%,10V,X7R,TP,2012	
LC85	2301-000411	C-FILM,PEF;220NF,5%,50V,BK,-,-	
LC86	2301-000411	C-FILM,PEF;220NF,5%,50V,BK,-,-	
LC88	2303-000312	C-FILM,PPF;100nF,5%,63V,TP,7.5x12.5x3.5,5	
LC89	2303-000312	C-FILM,PPF;100nF,5%,63V,TP,7.5x12.5x3.5,5	
LD10	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
LD11	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
LD13	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
LD14	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
LD16	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
LD17	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
LD18	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
LD19	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
LD8	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
LD9	0401-000101	DIODE-SWITCHING;1N4148,100V,200mA,DO-35,TP	
LD12	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
LD15	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
LD20	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
LD6	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
LD7	0402-000127	DIODE-RECTIFIER;1N4002,100V,1A,DO-41,TP	
LZD1	0403-000393	DIODE-ZENER;UZP5.1B,5.1V,4.8-5.4V,1W,DO-41	
LZD2	0403-000398	DIODE-ZENER;UZP8.2B,8.2V,7.7-8.7V,1W,DO-41	
LQ2	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,TP,120-	
LQ5	0501-000303	TR-SMALL SIGNAL;KSA733,PNP,250mW,TO-92,TP,120-	
LQ3	0501-000398	TR-SMALL SIGNAL;KSC945,NPN,250mW,TO-92,TP,120-	
LQ1	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
LQ4	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
LQ6	0501-000407	TR-SMALL SIGNAL;KSD471A-Y,NPN,800mW,TO-92,-,12	
LR95	2001-000010	R-CARBON;68KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR66	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4MM	
LR69	2001-000028	R-CARBON(S);100OHM,5%,1/2W,AA,TP,2.4X6.4MM	
LR24	2001-000273	R-CARBON;100KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR65	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR81	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR87	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR89	2001-000290	R-CARBON;10KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR56	2001-000319	R-CARBON;120KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR6	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR67	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR68	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR7	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR8	2001-000429	R-CARBON;1KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR91	2001-000449	R-CARBON;2.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR28	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR30	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR33	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR82	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR85	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR90	2001-000522	R-CARBON;22KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR84	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR86	2001-000591	R-CARBON;3.3KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR94	2001-000702	R-CARBON;39KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR92	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR93	2001-000786	R-CARBON;47KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR39	2001-000864	R-CARBON;56KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
LR88	2001-001055	R-CARBON(S);1.8KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
LR63	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
LR64	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
LR70	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
LR71	2001-001093	R-CARBON(S);2.2KOHM,5%,1/2W,AA,TP,2.4X6.4MM	
LR58	2003-000534	R-METAL OXIDE(S);1Kohm,5%,1W,AA,TP,3.3x9mm	
LR104	2003-000542	R-METAL OXIDE(S);1ohm,5%,1W,AA,TP,3.3x9mm	
LR103	2003-000689	R-METAL OXIDE(S);4.7ohm,5%,1W,AA,TP,3.3x9mm	
LR61	2003-000689	R-METAL OXIDE(S);4.7ohm,5%,1W,AA,TP,3.3x9mm	
LJW300	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	
LJW301	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	
LJW58	2007-000033	R-CHIP;0OHM,5%,1/8W,DA,TP,3216	
LC22	2201-000546	C-CERAMIC,DISC;4.7NF,20%,400V,Y5U,BK,16X7,10	
LC23	2201-000546	C-CERAMIC,DISC;4.7NF,20%,400V,Y5U,BK,16X7,10	
	2201-000795	C-CERAMIC,DISC;10nF,10%,400V,Y5P,TP,15x10,5	
LC25	2301-000375	C-FILM,PEF;100nF,5%,50V,TP,11x12.5x6.5,7m	
LC36	2301-000375	C-FILM,PEF;100nF,5%,50V,TP,11x12.5x6.5,7m	
LC50	2301-000375	C-FILM,PEF;100nF,5%,50V,TP,11x12.5x6.5,7m	
LC32	2401-000303	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
LC40	2401-000303	C-AL;100uF,20%,25V,GP,TP,6.3x11,5	
LC37	2401-000325	C-AL;100uF,20%,35V,GP,-,8x11.5,3.5m	
LC21	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
LC42	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
LC43	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
LC44	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
LC45	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
LC46	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
LC49	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
LC8	2401-000419	C-AL;10UF,20%,16V,GP,-,4X7,5	
LC1	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,2MM	
LC10	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,2MM	
LC11	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,2MM	
LC2	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,2MM	
LC3	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,2MM	

Location no.	Code no.	Description & Specifiation	Remarks
LC4	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,2MM	
LC5	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,2MM	
LC6	2401-000438	C-AL;10UF,20%,25V,GP,-,5X11,2MM	
LC35	2401-000475	C-AL;10UF,20%,50V,GP,-,5X11,2MM	
LC12	2401-000795	C-AL;220UF,20%,16V,GP,-,8X11.5,3.5M	
LC18	2401-000795	C-AL;220UF,20%,16V,GP,-,8X11.5,3.5M	
LC47	2401-000795	C-AL;220UF,20%,16V,GP,-,8X11.5,3.5M	
LC9	2401-001465	C-AL;47UF,20%,10V,GP,-,5X11,2MM	
LC24	2401-001572	C-AL;47UF,20%,50V,GP,-,6.3X11,2.5MM	
LC29	2401-001572	C-AL;47UF,20%,50V,GP,-,6.3X11,2.5MM	
LC33	2401-001572	C-AL;47UF,20%,50V,GP,-,6.3X11,2.5MM	
LC34	2401-001572	C-AL;47UF,20%,50V,GP,-,6.3X11,2.5MM	
LC38	2401-001572	C-AL;47UF,20%,50V,GP,-,6.3X11,2.5MM	
LC52	2401-001895	C-AL;100uF,20%,16V,GP,6.3x11mm,2.5m	
LC7	2401-001895	C-AL;100uF,20%,16V,GP,6.3x11mm,2.5m	
LC15	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
LC16	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
LC19	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
LC20	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
LC51	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
LC13	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
LC14	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
LC17	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
LC30	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
LC9	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
LC31	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
LC39	2401-002180	C-AL;2.2UF,20%,50V,GP,TP,5X11,5MM	
LFUSE1	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM	
LFUSE2	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM	
LFUSE3	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM	
RF1	3602-000147	FUSE-CLIP;250V,7.5A,30MOHM	
LCW1	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5mm,STRAIGHT,SN	
LCW7	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5mm,STRAIGHT,SN	
LCW8	3711-000820	CONNECTOR-HEADER;BOX,2P,1R,2.5mm,STRAIGHT,SN	
LCW5	3711-001011	CONNECTOR-HEADER;BOX,5P,1R,2.5mm,STRAIGHT,SN	
LCW3	3711-001062	CONNECTOR-HEADER;BOX,6P,1R,2mm,STRAIGHT,SN	
LCW2	3711-001168	CONNECTOR-HEADER;BOX,9P,1R,2.5MM,STRAIGHT,SN	
LCW4	3711-001168	CONNECTOR-HEADER;BOX,9P,1R,2.5MM,STRAIGHT,SN	
RCW1	3711-003111	CONNECTOR-HEADER;BOX,6P,1R,2.5mm,-,BRAS	
LIC1	AC14-12001G	IC;KA78L05,T,-	
	AH97-00223A	**ASSY-DECK DVD-MECHA;COM,MAX945D**	**S.N.A.**
	AH92-00138A	**ASSY-PCB-DVDPACK;DV-P32 MAX945D**	**S.N.A.**
MIC8	1102-001090	IC-EPROM;27C081,1MA8BIT,DIP,32P,600MIL	
MXTAL1	2801-000199	CRYSTAL-UNIT;20MHz,50ppm,28-AAA,16pF,50ohm	
SY1	2801-000261	CRYSTAL-UNIT;33.8688MHZ,50PPM,28-AAA,12PF,2	
VY1	2801-003554	CRYSTAL-UNIT;27MHz,10ppm,28-AAA,12pF,40ohm	
MIC8	3704-000472	SOCKET-IC;32P,DIP,SN,2.54mm	
SCW1	3708-000279	CONNECTOR-FPC/FC/PIC;36P,1.25mm,ANGLE,SN	
ACW2	3708-001017	CONNECTOR-FPC/FC/PIC;22P,1.25mm,ANGLE,SN	
LCW1	3708-001311	CONNECTOR-FPC/FC/PIC,7P,1.25mm,STRAIGHT,SN	
VCW1	3711-000814	CONNECTOR-HEADER;BOX,2P,1R,2.5mm,ANGLE,SN	
ACW1	3711-000906	CONNECTOR-HEADER;BOX,3P,1R,2mm,ANGLE,SN	
ACW3	3711-000906	CONNECTOR-HEADER;BOX,3P,1R,2mm,ANGLE,SN	
CW1	3711-001167	CONNECTOR-HEADER;BOX,9P,1R,2.5MM,STRAIGHT,SN	
LW1	3711-003379	CONNECTOR-HEADER;NOWALL,3P,1R,2.5MM,STRAIGHT,SN	
CW1	AH39-00051A	LEAD CONNECTOR-ASSY;DP,5264-09,5395-09,9P,300MM,1007#26	
CW2	AH39-00051A	LEAD CONNECTOR-ASSY;DP,5264-09,5395-09,9P,300MM,1007#26	
CW3	AH39-00051A	LEAD CONNECTOR-ASSY;DP,5264-09,5395-09,9P,300MM,1007#26	
CW4	AH39-00051A	LEAD CONNECTOR-ASSY;DP,5264-09,5395-09,9P,300MM,1007#26	
	AH68-50254B	LABEL-SERIAL;ART PAPER,T0.1,L10,W45,-,-,SME/SEHZ	
LZD2	0403-000352	DIODE-ZENER;UZ4.7BM,4.7V,4.4-5.0V,500MW,DO	
LZD1	0403-000357	DIODE-ZENER;UZ5.6BM,5.6V,5.4-5.8V,500MW	
AE6	2401-000907	C-AL;22UF,20%,16V,GP,-,5X11,2MM	
AE9	2401-000907	C-AL;22UF,20%,16V,GP,-,5X11,2MM	
RE11	2401-000907	C-AL;22UF,20%,16V,GP,-,5X11,2MM	
SE5	2401-000907	C-AL;22UF,20%,16V,GP,-,5X11,2MM	
AE4	2401-001164	C-AL;33UF,20%,16V,GP,-,5X11,2MM	
AE5	2401-001164	C-AL;33UF,20%,16V,GP,-,5X11,2MM	
AE7	2401-001164	C-AL;33UF,20%,16V,GP,-,5X11,2MM	
AE8	2401-001164	C-AL;33UF,20%,16V,GP,-,5X11,2MM	
VE66	2401-001355	C-AL;470UF,20%,10V,GP,-,8X11.5,5MM	
AE2	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
AE3	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
PE1	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
PE2	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
PE3	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
PE4	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
VE1	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
VE2	2401-001893	C-AL;100UF,20%,16V,GP,TP,6.3X7MM,5	
RE13	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
RE2	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
RE8	2401-001904	C-AL;10UF,20%,16V,-,TP,4X7MM,5	
RE10	2401-001912	C-AL;1uF,20%,50V,GP,5x11mm,2mm,BK	
DRE1	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
DRE2	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
DRE3	2401-001954	C-AL;4.7UF,20%,50V,GP,BK,5X11MM,5	
-	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
AE1	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
AE10	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
DE1	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
DRE11	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
DRE4	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
DRE5	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
DRE6	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
DRE7	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
DRE8	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
DRE9	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
LCE1	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
RE12	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
RE17	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
RE9	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
SE1	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
SE2	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
SE3	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
SE4	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
VE51	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
VE59	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
VE62	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
VE65	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
VE69	2401-001975	C-AL;47UF,20%,16V,GP,TP,5X11MM,5	
RD1	0401-000008	DIODE-SWITCHING;DAN217,80V,100mA,SOT-23,TP	
RD3	0403-000344	DIODE-ZENER;UZ3.9B,3.9V,3.7-4.1V,500MW,	
AD1	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-23	
RD6	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-23	
RD7	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-23	
SD2	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-23	
SD3	0407-000114	DIODE-ARRAY;DAN202K,80V,100mA,CA2-3,SOT-23	
RQ1	0501-000279	TR-SMALL SIGNAL;KSA1182-Y,PNP,150mW,SOT-23,TP,	
AQ2	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-23,TP,	
AQ4	0501-000341	TR-SMALL SIGNAL;KSC1623-L,NPN,200mW,SOT-23,TP,	
RQ2	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
SQ1	0504-000128	TR-DIGITAL;-,NPN,200MW,22K/22K,SOT-23,TP	
AQ1	0504-000156	TR-DIGITAL;KSR2103,PNP,200MW,22K/22K,SOT-23,TP	
MIC7	0801-000379	IC-CMOS LOGIC;74HC00,NAND GATE,SOP,14P,150MI	
DIC7	0801-002097	IC-CMOS LOGIC;7SET08,AND GATE,SOP,5P,110MIL,	
RIC6	0801-002097	IC-CMOS LOGIC;7SET08,AND GATE,SOP,5P,110MIL,	
SIC2	0801-002097	IC-CMOS LOGIC;7SET08,AND GATE,SOP,5P,110MIL,	
SIC3	0801-002097	IC-CMOS LOGIC;7SET08,AND GATE,SOP,5P,110MIL,	
VIC3	0801-002097	IC-CMOS LOGIC;7SET08,AND GATE,SOP,5P,110MIL,	
MIC6	0801-002143	IC-CMOS LOGIC;7S32,OR GATE,SOT-25,5P,63MIL,S	
MIC2	0801-002207	IC-CMOS LOGIC;74AC573,LATCH,SOP,20P,300MIL,O	
RIC2	0801-002279	IC-CMOS LOGIC;74VHC4053,MUX,SOP,16P,150MIL	
MIC1	0903-001144	IC-MICROCONTROLLER;93CM41,8BIT,QFP,100	
AIC1	1002-001129	IC-D/A CONVERTER;AK4324VF,24BIT,VSOP,24P,220MIL	
DRIC2	1003-001067	IC-MOTOR DRIVER;KA3010D,SOP,28P,375MIL,QUAD,95	
DRIC1	1003-001130	IC-MOTOR DRIVER;KA3011DTF,SOP,28P-,QUAD,-,TP,	
LIC1	1003-001162	IC-MOTOR DRIVER;KA3082,SIP,10PIN,25MIL,DOUBLE,	
LIC2	1003-001162	IC-MOTOR DRIVER;KA3082,SIP,10PIN,25MIL,DOUBLE,	
MIC5	1103-001133	IC-EEPROM;24C020,256x8BIT,SOP,8P,150MIL,	
VIC10	1105-001165	IC-DRAM;416S1020,512Kx16BITx2,TSOP,50P	
VIC4	1105-001165	IC-DRAM;416S1020,512Kx16BITx2,TSOP,50P	
AOP1	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL,100V/mV,PLASTIC,	
RIC4	1201-000163	IC-OP AMP;4560,SOP,8P,173MIL,DUAL,100V/mV,PLASTIC,	
VIC52	1201-001419	IC-VIDEO AMP;7660,SSOP,10P,173MIL,3.6DB	
RIC3	1202-000121	IC-VOLTAGE COMP.;2903,SOP,8P,150MIL,DUAL,36V,CM	
SIC8	1202-000121	IC-VOLTAGE COMP.;2903,SOP,8P,150MIL,DUAL,36V,CM	
VIC50	1204-001366	IC-VIDEO ENCODER;SAA7128,QFP,44P,-,PLAST	
VIC1	1204-001438	IC-DECODER;ZIVA-3,VQFP,208P,1098MIL,PLASTIC	
LR6	2001-000019	R-CARBON(S);10OHM,5%,1/2W,AA,TP,2.4X6.4MM	
VR7	2007-000023	R-CHIP;120OHM,5%,1/10W,DA,TP,2012	
DRR14	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
MR25	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
MR33	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
SR13	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
SR21	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
SR22	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
SR24	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
SR8	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
VR56	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
SR11	2007-000068	R-CHIP;470KOHM,5%,1/10W,DA,TP,2012	
AR1	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
AR37	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
AR38	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
AR39	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
AR5	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
AR6	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
AR7	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
AR8	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
LR14	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR12	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR13	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR14	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR15	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR16	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR17	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR18	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR19	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR20	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR21	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR22	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR23	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
MR24	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR3	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR42	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	

Location no.	Code no.	Description & Specifiation	Remarks
VR43	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR44	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR45	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR46	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR47	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR48	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR49	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR50	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR51	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR52	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR54	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR55	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR57	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR58	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR59	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR60	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR61	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR62	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR63	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR64	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR65	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR66	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR67	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR68	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR69	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR70	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR71	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR72	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR73	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR74	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR75	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR76	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR77	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR78	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR79	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR80	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
VR81	2007-000074	R-CHIP;100ohm,5%,1/16W,DA,TP,1608	
AR15	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
AR27	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
MR37	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
MR38	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RR26	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RR34	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RR4	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RR42	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RR43	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RR44	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RR45	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
RR63	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
SR1	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
SR3	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
SR40	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
SR42	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR105	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR106	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR107	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR21	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR22	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR23	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR24	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR25	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR26	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR27	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR28	2007-000090	R-CHIP;10Kohm,5%,1/16W,DA,TP,1608	
VR30	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR31	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR32	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR33	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR34	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR35	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR36	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR37	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR38	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR39	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR40	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
VR41	2007-000113	R-CHIP;33ohm,5%,1/16W,DA,TP,1608	
SR53	2007-000241	R-CHIP;1.5KOHM,5%,1/10W,DA,TP,2012	
AR40	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
MR43	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RR18	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RR19	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RR22	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RR23	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RR32	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RR36	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RR37	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RR38	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RR39	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RR47	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
RR48	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
SR15	2007-000282	R-CHIP;100KOHM,5%,1/10W,DA,TP,2012	
VR1	2007-000308	R-CHIP;10OHM,5%,1/10W,DA,TP,2012	
MR39	2007-000338	R-CHIP;120KOHM,5%,1/10W,DA,TP,2012	

Location no.	Code no.	Description & Specifiation	Remarks
RR1	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	
RR14	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	
RR25	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	
RR3	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	
RR30	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	
RR58	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	
SR26	2007-000355	R-CHIP;12KOHM,5%,1/10W,DA,TP,2012	
DRR13	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
RR17	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
RR2	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
RR35	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
RR6	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
RR67	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
SR19	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
SR20	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
SR38	2007-000409	R-CHIP;15KOHM,5%,1/10W,DA,TP,2012	
SR14	2007-000449	R-CHIP;180OHM,5%,1/10W,DA,TP,2012	
SR39	2007-000457	R-CHIP;18KOHM,5%,1/10W,DA,TP,2012	
AR18	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
AR30	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
AR4	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
LR3	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
LR4	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
RR24	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
RR28	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
RR29	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
SR44	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
SR45	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
SR46	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
SR47	2007-000468	R-CHIP;1KOHM,5%,1/10W,DA,TP,2012	
MR2	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012	
SR2	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012	
SR48	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012	
SR49	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012	
VR9	2007-000477	R-CHIP;1MOHM,5%,1/10W,DA,TP,2012	
MR36	2007-000490	R-CHIP;2.2KOHM,1%,1/10W,DA,TP,2012	
RS1	2007-000490	R-CHIP;2.2KOHM,1%,1/10W,DA,TP,2012	
RS2	2007-000490	R-CHIP;2.2KOHM,1%,1/10W,DA,TP,2012	
SR34	2007-000490	R-CHIP;2.2KOHM,1%,1/10W,DA,TP,2012	
SR35	2007-000490	R-CHIP;2.2KOHM,1%,1/10W,DA,TP,2012	
SR36	2007-000490	R-CHIP;2.2KOHM,1%,1/10W,DA,TP,2012	
SR37	2007-000490	R-CHIP;2.2KOHM,1%,1/10W,DA,TP,2012	
RR11	2007-000508	R-CHIP;2.4KOHM,1%,1/10W,DA,TP,2012	
RR21	2007-000518	R-CHIP;2.7KOHM,5%,1/10W,DA,TP,2012	
RR12	2007-000546	R-CHIP;20KOHM,5%,1/10W,DA,TP,2012	
SR17	2007-000546	R-CHIP;20KOHM,5%,1/10W,DA,TP,2012	
SR18	2007-000546	R-CHIP;20KOHM,5%,1/10W,DA,TP,2012	
AR36	2007-000572	R-CHIP;220OHM,5%,1/10W,DA,TP,2012	
RR9	2007-000598	R-CHIP;22OHM,5%,1/8W,DA,TP,3216	
DRR9	2007-000615	R-CHIP;24KOHM,5%,1/10W,DA,TP,2012	
RR40	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	
RR68	2007-000653	R-CHIP;27KOHM,5%,1/10W,DA,TP,2012	
SR31	2007-000671	R-CHIP;2KOHM,5%,1/10W,DA,TP,2012	
SR32	2007-000671	R-CHIP;2KOHM,5%,1/10W,DA,TP,2012	
SR33	2007-000671	R-CHIP;2KOHM,5%,1/10W,DA,TP,2012	
RR33	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	
RR59	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	
RR65	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	
SR50	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	
SR51	2007-000686	R-CHIP;3.3KOHM,5%,1/10W,DA,TP,2012	
RR16	2007-000703	R-CHIP;3.6KOHM,5%,1/10W,DA,TP,2012	
SR52	2007-000703	R-CHIP;3.6KOHM,5%,1/10W,DA,TP,2012	
RR41	2007-000710	R-CHIP;3.9KOHM,5%,1/10W,DA,TP,2012	
AR20	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012	
AR32	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012	
RR51	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	
RR70	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	
VR11	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	
VR200	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	
VR201	2007-000774	R-CHIP;33KOHM,5%,1/10W,DA,TP,2012	
SR7	2007-000798	R-CHIP;360OHM,5%,1/10W,DA,TP,2012	
LR7	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012	
LR8	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012	
LR9	2007-000822	R-CHIP;390OHM,5%,1/10W,DA,TP,2012	
MR27	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012	
RR27	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012	
SR23	2007-000830	R-CHIP;39KOHM,5%,1/10W,DA,TP,2012	
AR16	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR17	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR19	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR28	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR29	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR31	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR33	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR34	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
AR35	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
DRR10	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
LR1	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
LR2	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
MR1	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
MR10	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
MR3	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
MR34	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	

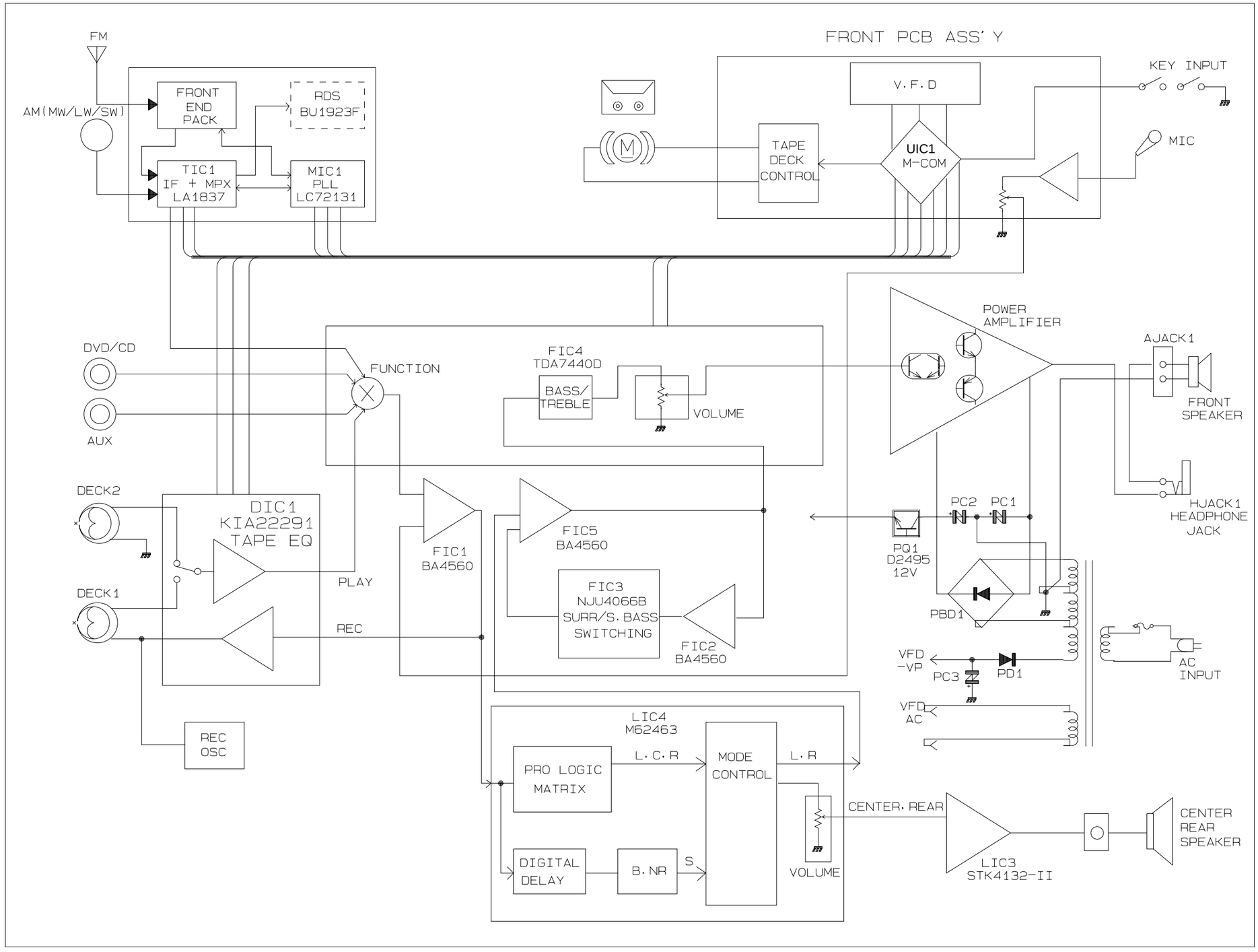
Location no.	Code no.	Description & Specifiation	Remarks
MR35	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
MR4	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
MR5	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
MR6	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
MR7	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
MR8	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
MR9	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
RR20	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
RR46	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
RR49	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
RR50	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
RR52	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
RR56	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
RR62	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
SR10	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
SR9	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
VR10	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
VR101	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
VR15	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
VR16	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
VR2	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
VR4	2007-000872	R-CHIP;4.7KOHM,5%,1/10W,DA,TP,2012	
VR176	2007-000904	R-CHIP;430OHM,5%,1/10W,DA,TP,2012	
VR177	2007-000904	R-CHIP;430OHM,5%,1/10W,DA,TP,2012	
VR178	2007-000904	R-CHIP;430OHM,5%,1/10W,DA,TP,2012	
RR8	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	
SR54	2007-000931	R-CHIP;470OHM,5%,1/10W,DA,TP,2012	
RS5	2007-000941	R-CHIP;47KOHM,5%,1/10W,DA,TP,2012	
RR7	2007-000947	R-CHIP;47OHM,5%,1/10W,DA,TP,2012	
VR12	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
VR13	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
VR14	2007-000981	R-CHIP;5.6KOHM,5%,1/10W,DA,TP,2012	
RR72	2007-000995	R-CHIP;510KOHM,5%,1/10W,DA,TP,2012	
SR6	2007-001039	R-CHIP;56KOHM,5%,1/10W,DA,TP,2012	
AR10	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
AR11	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
AR12	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
AR13	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
AR14	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
AR21	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
AR22	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
AR23	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
AR24	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
AR25	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
AR26	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
AR9	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
RR5	2007-001056	R-CHIP;6.2Kohm,5%,1/16W,DA,TP,1608	
DRR11	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
DRR12	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
SR5	2007-001071	R-CHIP;6.8KOHM,5%,1/10W,DA,TP,2012	
RR57	2007-001141	R-CHIP;7.5KOHM,5%,1/10W,DA,TP,2012	
VR192	2007-001166	R-CHIP;75OHM,5%,1/10W,DA,TP,2012	
DRR7	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
RR10	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
RR13	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
RR15	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
RR31	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
RR53	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
SR4	2007-001177	R-CHIP;8.2KOHM,5%,1/10W,DA,TP,2012	
SR12	2007-001234	R-CHIP;910KOHM,5%,1/10W,DA,TP,2012	
SR16	2007-001243	R-CHIP;91KOHM,5%,1/10W,DA,TP,2012	
RR69	2007-001656	R-CHIP;16KOHM,1%,1/10W,DA,TP,2012	
DRR3	2007-007157	R-CHIP;1ohm,5%,1/4W,DA,TP,3216	
DRR4	2007-007157	R-CHIP;1ohm,5%,1/4W,DA,TP,3216	
AC1	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC13	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC14	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC15	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC16	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC17	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC18	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC19	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC2	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC21	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC3	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC7	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC8	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
AC9	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC11	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC12	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC13	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC14	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC16	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC23	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC24	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC4	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC5	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC6	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC7	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC8	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DC9	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC1	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC10	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC11	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC12	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC2	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC3	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC4	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC5	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC6	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC7	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC8	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
DRC9	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
LC2	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
LC3	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
LC5	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
LC6	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
LC7	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
LC8	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC1	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC10	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC11	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC12	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC13	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC14	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC2	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC20	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC5	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC6	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC7	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC8	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
MC9	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
PC1	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
PC2	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
PC3	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
PC4	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC1	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC11	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC15	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC16	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC17	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC2	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC20	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC22	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC23	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC25	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC26	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC27	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC29	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC3	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC31	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC32	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC33	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC34	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC37	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC38	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC41	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC42	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC43	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC44	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC47	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC5	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC50	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC51	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC52	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC53	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC54	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RSC1	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC1	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC11	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC16	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC18	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC20	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC36	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC37	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC38	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC39	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC4	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC5	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC6	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC7	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
SC8	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC1	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC10	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC100	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC101	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC102	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC103	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC104	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC105	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC106	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC11	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC12	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC13	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC14	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC15	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	

Location no.	Code no.	Description & Specifiation	Remarks
VC16	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC17	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC18	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC19	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC2	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC20	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC21	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC22	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC23	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC24	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC25	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC26	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC27	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC28	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC29	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC3	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC30	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC31	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC32	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC33	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC34	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC35	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC4	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC42	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC43	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC44	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC45	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC5	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC6	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC7	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC8	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
VC9	2203-000178	C-CERAMIC,CHIP;100nF,+80-20%,25V,Y5V,TP,1608,	
RC35	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NPO,TP,2012	
RC4	2203-000239	C-CERAMIC,CHIP;0.1nF,5%,50V,NPO,TP,2012	
LC1	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
LC4	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
RC10	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
RC40	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
RC9	2203-000260	C-CERAMIC,CHIP;10NF,10%,50V,X7R,TP,2012	
SC21	2203-000295	C-CERAMIC,CHIP;0.01nF,5%,50V,NPO,TP,2012	
SC22	2203-000295	C-CERAMIC,CHIP;0.01nF,5%,50V,NPO,TP,2012	
SC2	2203-000335	C-CERAMIC,CHIP;12pF,5%,50V,NPO,TP,2012,2.0m	
SC3	2203-000335	C-CERAMIC,CHIP;12pF,5%,50V,NPO,TP,2012,2.0m	
AC20	2203-000374	C-CERAMIC,CHIP;15NF,10%,50V,X7R,TP,2012	
AC22	2203-000374	C-CERAMIC,CHIP;15NF,10%,50V,X7R,TP,2012	
SC29	2203-000374	C-CERAMIC,CHIP;15NF,10%,50V,X7R,TP,2012	
SC30	2203-000374	C-CERAMIC,CHIP;15NF,10%,50V,X7R,TP,2012	
SC34	2203-000408	C-CERAMIC,CHIP;180pF,5%,50V,NPO,TP,2012,-	
MC3	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
MC4	2203-000429	C-CERAMIC,CHIP;18pF,5%,50V,NPO,TP,2012,-	
SC14	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,TP,2012	
SC15	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,TP,2012	
SC31	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,TP,2012	
SC32	2203-000495	C-CERAMIC,CHIP;2.2NF,10%,50V,X7R,TP,2012	
RC39	2203-000533	C-CERAMIC,CHIP;2.7nF,10%,50V,X7R,TP,2012,-	
DC1	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
DC2	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
DC3	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
RC12	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
RC13	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
RC46	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
SC17	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
SC33	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
SC9	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC36	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC37	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC38	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC39	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC40	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC41	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC50	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC51	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC52	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC53	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC54	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
VC55	2203-000575	C-CERAMIC,CHIP;220NF,10%,25V,X7R,TP,2012	
AC11	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NPO,TP,2012	
AC12	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NPO,TP,2012	
AC5	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NPO,TP,2012	
AC6	2203-000595	C-CERAMIC,CHIP;0.22nF,5%,50V,NPO,TP,2012	
SC26	2203-000609	C-CERAMIC,CHIP;22NF,10%,50V,X7R,TP,2012	
RC7	2203-000840	C-CERAMIC,CHIP;390PF,5%,50V,NPO,TP,2012,-	
VC82	2203-000858	C-CERAMIC,CHIP;0.039nF,5%,50V,NPO,TP,2012	
RC55	2203-000892	C-CERAMIC,CHIP;4.7NF,10%,50V,X7R,TP,2012,-	
RC45	2203-000919	C-CERAMIC,CHIP;470NF,+80-20%,16V,Y5V,TP,2012	
MC16	2203-000953	C-CERAMIC,CHIP;0.47nF,5%,50V,NPO,TP,2012	
MC18	2203-000953	C-CERAMIC,CHIP;0.47nF,5%,50V,NPO,TP,2012	
MC19	2203-000953	C-CERAMIC,CHIP;0.47nF,5%,50V,NPO,TP,2012	
RC28	2203-001058	C-CERAMIC,CHIP;0.56nF,5%,50V,NPO,TP,2012	
RC6	2203-001058	C-CERAMIC,CHIP;0.56nF,5%,50V,NPO,TP,2012	
SC10	2203-001223	C-CERAMIC,CHIP;820pF,10%,50V,X7R,TP,2012,2.0m	
RC24	2203-001245	C-CERAMIC,CHIP;82pF,5%,50V,NPO,TP,2012,-	
RC21	2203-001517	C-CERAMIC,CHIP;15pF,5%,50V,NPO,TP,2012,-	

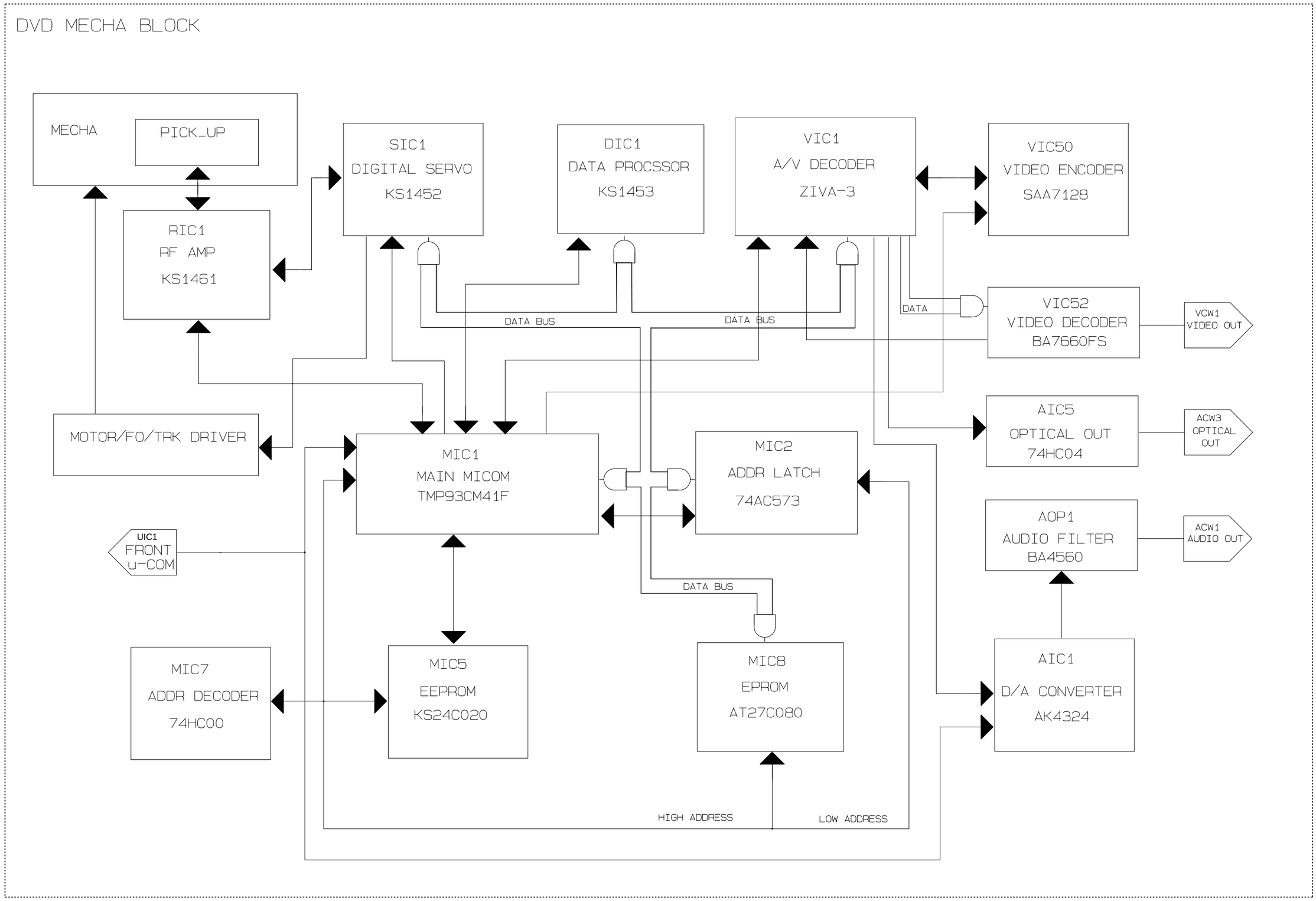
Location no.	Code no.	Description & Specifiation	Remarks
RC8	2203-001517	C-CERAMIC,CHIP;15pF,5%,50V,NPO,TP,2012,-	
AC10	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,TP,2012	
AC4	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,TP,2012	
RC14	2203-001537	C-CERAMIC,CHIP;1NF,10%,50V,X7R,TP,2012	
RC36	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,TP,2012,2MM	
SC19	2203-001551	C-CERAMIC,CHIP;1.5NF,10%,50V,X7R,TP,2012,2MM	
VC47	2203-001611	C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,2012,2mm	
VC79	2203-001611	C-CERAMIC,CHIP;22pF,5%,50V,NPO,TP,2012,2mm	
VC48	2203-001619	C-CERAMIC,CHIP;27PF,5%,50V,NPO,TP,2012,2MM	
AL1	2703-000001	INDUCTOR-SMD;10uH,10%,2.5x3.2x2mm	
RL2	2703-000001	INDUCTOR-SMD;10uH,10%,2.5x3.2x2mm	
RL3	2703-000001	INDUCTOR-SMD;10uH,10%,2.5x3.2x2mm	
VL100	2703-000001	INDUCTOR-SMD;10uH,10%,2.5x3.2x2mm	
DL1	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
DRL1	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
DRL2	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
LR5	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
ML1	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
RL3	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
RL4	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
SL2	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
SL3	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
SL4	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
VL1	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
VL2	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
VL4	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
VL5	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
VL6	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
VL8	3301-000353	CORE-FERRITE BEAD;AB,2.0X1.25X0.9MM,-,-	
LQ1	AC14-12001G	IC;KA78L05,T,-	
DIC2	AH11-12001A-1	DRAM-IC;MBH416256A-35J	
RIC1	AH13-10030M	IC-ASIC;KS1461,VQFP,100P,RF IC	
SIC1	AH13-10030N	IC-ASIC;KS1452,QFP,80P,DSSP IC	
DIC1	AH13-10030P	IC-ASIC;KS1453,TQFP,128P,DATA PRO	
AIC5	AH14-10004R	IC;M74HCU04,SOP,TAPE 14P	
VIC6	AH14-10004R	IC;M74HCU04,SOP,TAPE 14P	
	AH97-00199A	**ASSY-P/U-DECK;-,-,DV-P32**	**S.N.A.**
HA2	BG32-30002A	SENSOR-HALL;122TO274MV,20MA,250TO450OHM,2 BG32	
	AH92-00139A	**ASSY-PCB-DECK;DV-P32 ,MECHA**	**S.N.A.**
	AH30-20001B	PICK-UP;SPU-DP1	
	AH39-00050A	CABLE-DIN-FLAT;-,-,50,UL2896,AC,WHT,-,11P	
	AH92-00051A	**ASSY-PCB HALL SENSOR;DP-3**	**S.N.A.**
TR1	0501-000314	TR-SMALL SIGNAL;KSA812,PNP,150mW,SOT-23,TP,90-	
TR2	0501-000314	TR-SMALL SIGNAL;KSA812,PNP,150mW,SOT-23,TP,90-	
JP1	2007-000029	R-CHIP;0OHM,5%,1/10W,DA,TP,2012	
R2	2007-000290	R-CHIP;100OHM,5%,1/10W,DA,TP,2012	
R1	2007-000766	R-CHIP;330OHM,5%,1/10W,DA,TP,2012	
VR1	2104-000001	VR-SMD;1KOHM,25%,0.15W,TOP/BOTTOM	
HA1	BG32-30002A	SENSOR-HALL;122TO274MV,20MA,250TO450OHM,2 BG32	
HA2	BG32-30002A	SENSOR-HALL;122TO274MV,20MA,250TO450OHM,2 BG32	
	AH92-00142A	**ASSY-PCB-DECK;DV-P32 ,-**	**S.N.A.**
DRR18	2001-000221	R-CARBON;1.2KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DRR14	2001-000397	R-CARBON;180KOHM,5%,1/8W,AA,TP,1.8X3.2MM	
DRR2	2001-000405	R-CARBON;180OHM,5%,1/8W,AA,TP,1.8X3.2MM	
DRC12	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,3.5X19,-	
DRC16	2202-000780	C-CERAMIC,MLC-AXIAL;100NF,+80-20%,50V,Y5V,3.5X19,-	
SL1	2701-000114	INDUCTOR-AXIAL;10uH,10%,2.5x3.4mm	
CN5	3708-000279	CONNECTOR-FPC/FC/PIC;36P,1.25mm,ANGLE,SN	
	CMS300-L	DVD-MECHA-ASSY;XINXING,MAX945D	
	AH92-00139A	ASSY-PCB-DECK;DV-P32 ,MECHA	
	PS945DE/XEF	SPEAKER SYSTEM;MAX945D	

7. Block Diagram

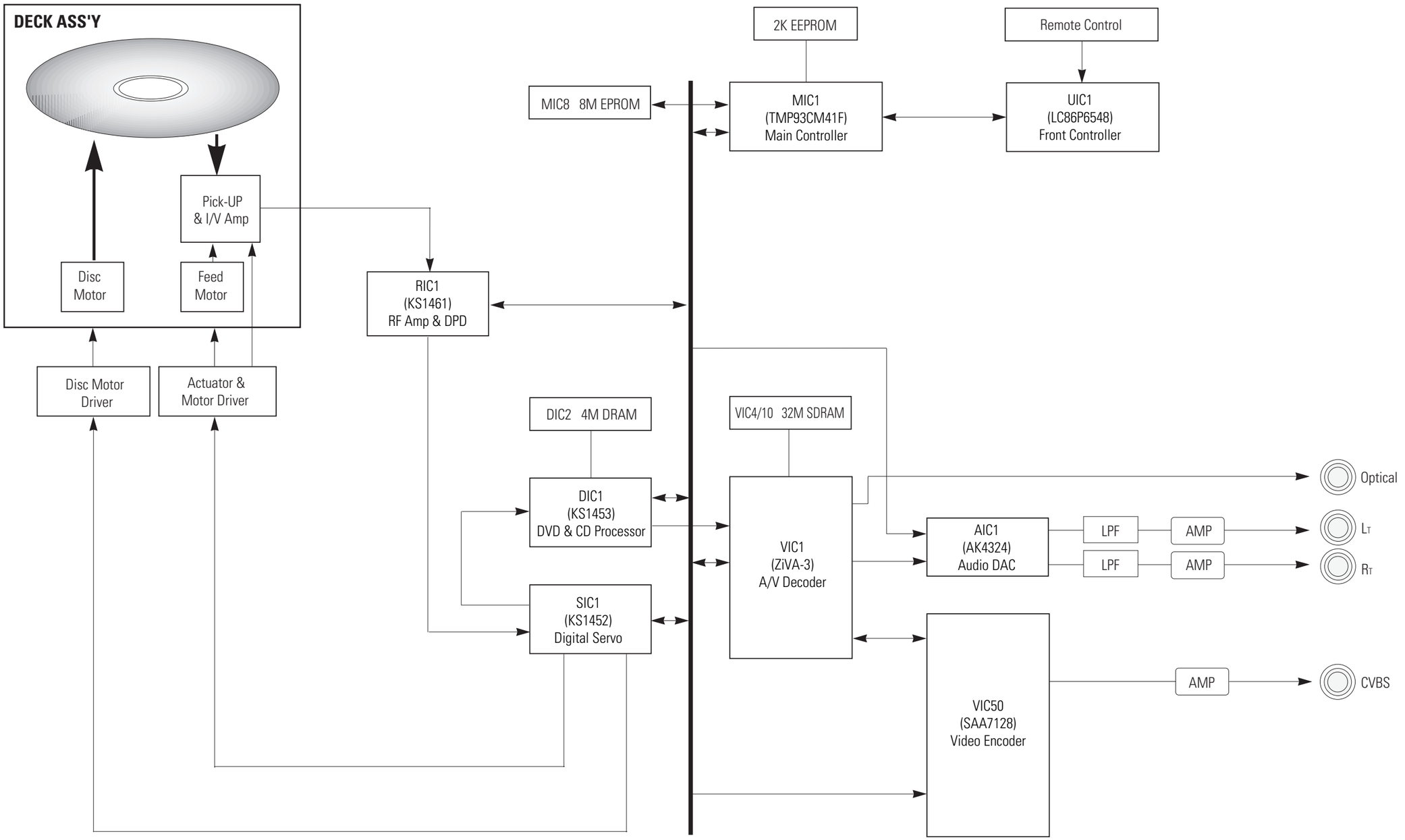
7-1 MAIN Part



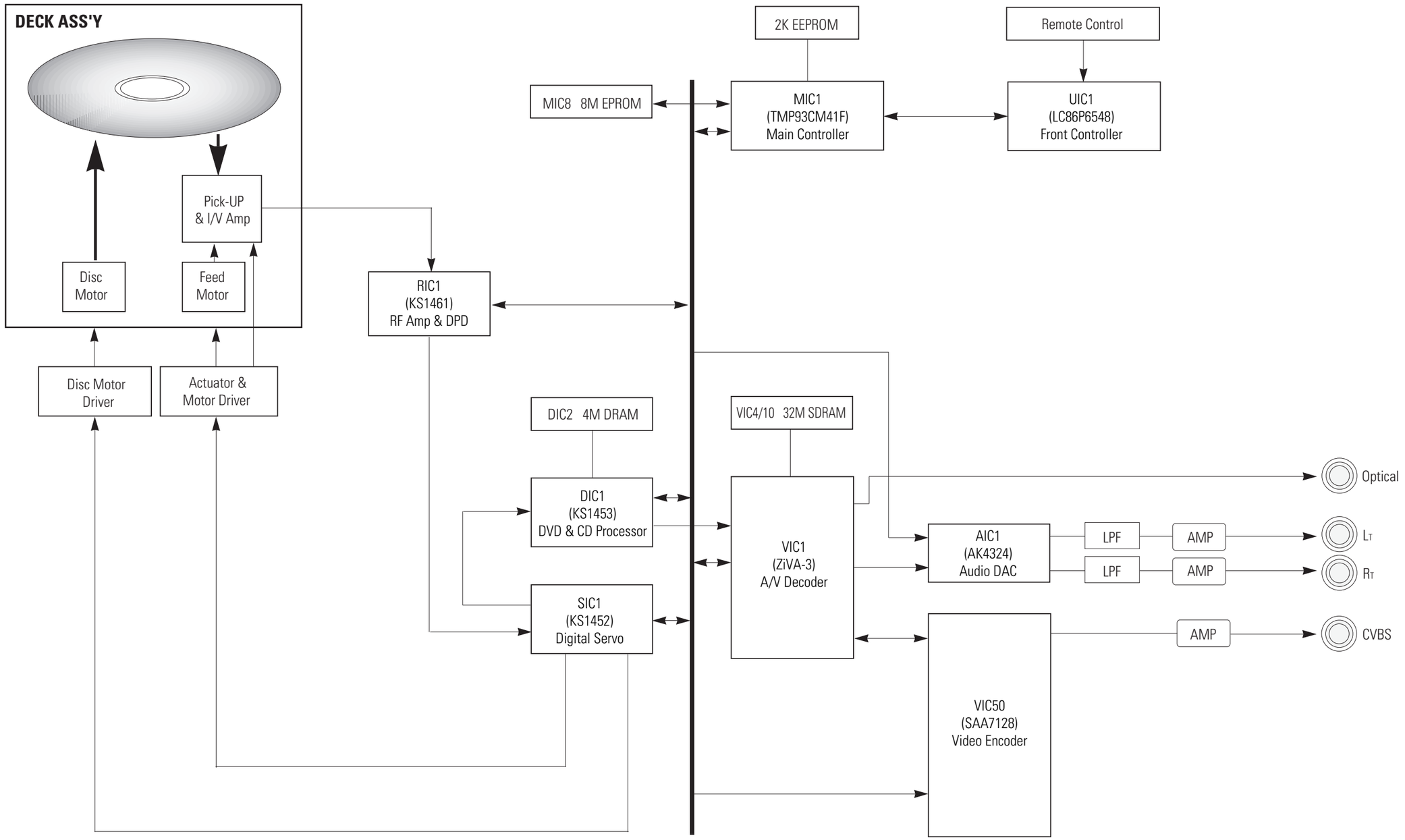
7-2 DVD Part


DVD MECHA BLOCK
MECHA
PICK_UP
RIC1
RF AMP
KS1461
SIC1
DIGITAL SERVO
KS1452
DIC1
DATA PROCSSOR
KS1453
VIC1
A/V DECODER
ZIVA-3
VIC50
VIDEO ENCODER
SAA7128
DATA BUS
DATA BUS
DATA
VIC52
VIDEO DECODER
BA7660FS
VCW1
VIDEO OUT
MOTOR/FO/TRK DRIVER
MIC1
MAIN MICOM
TMP93CM41F
MIC2
ADDR LATCH
74AC573
AIC5
OPTICAL OUT
74HC04
ACW3
OPTICAL
OUT
AOP1
AUDIO FILTER
BA4560
ACW1
AUDIO OUT
UIC1
FRONT
u-COM
DATA BUS
MIC7
ADDR DECODER
74HC00
MIC5
EEPROM
KS24C020
MIC8
EPROM
AT27C080
AIC1
D/A CONVERTER
AK4324
HIGH ADDRESS
LOW ADDRESS

7-3 NTSC DVD Part

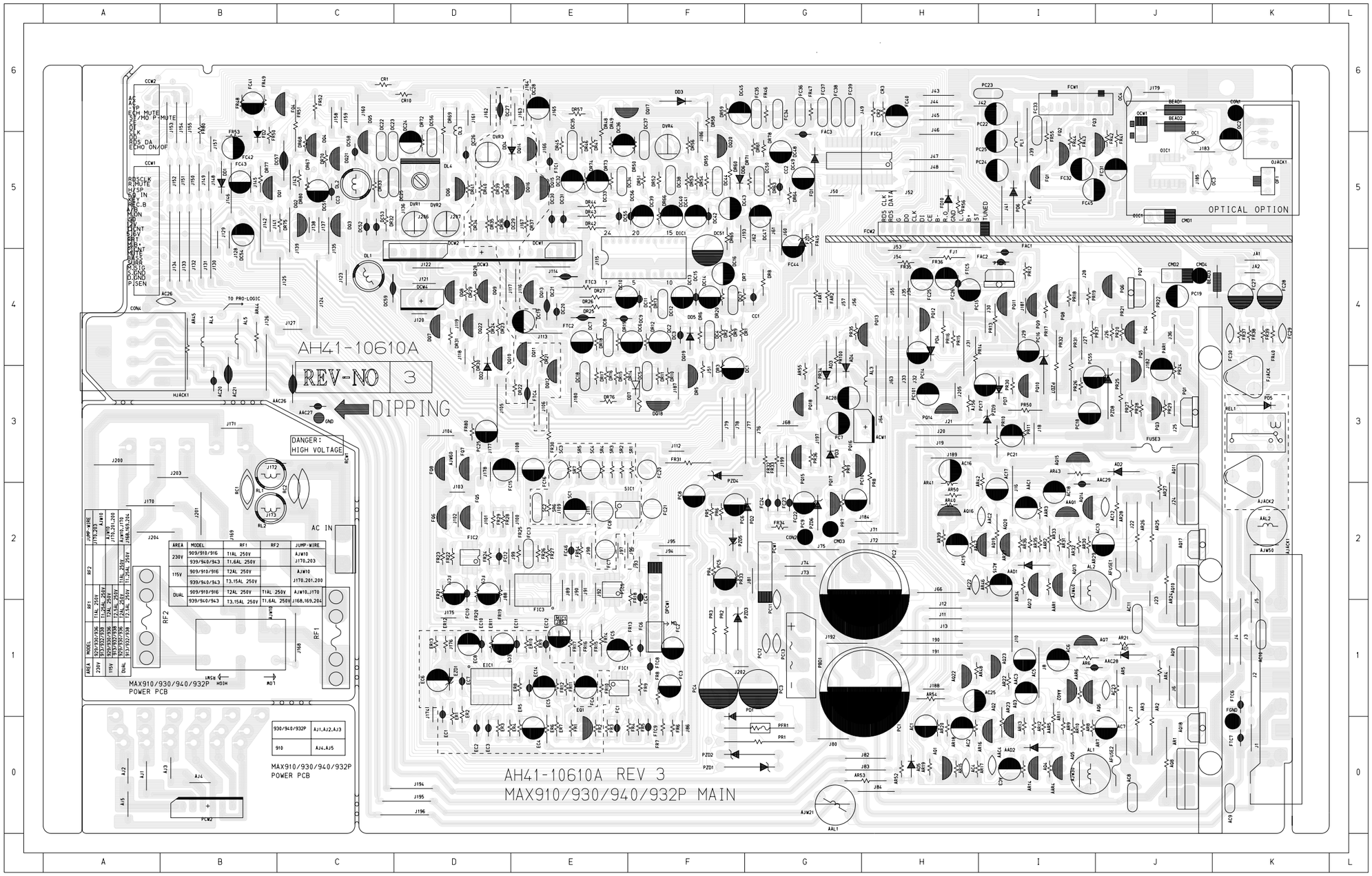


7-4 PAL DVD Part



8. Printed Circuit Board Diagram

8-1 MAIN



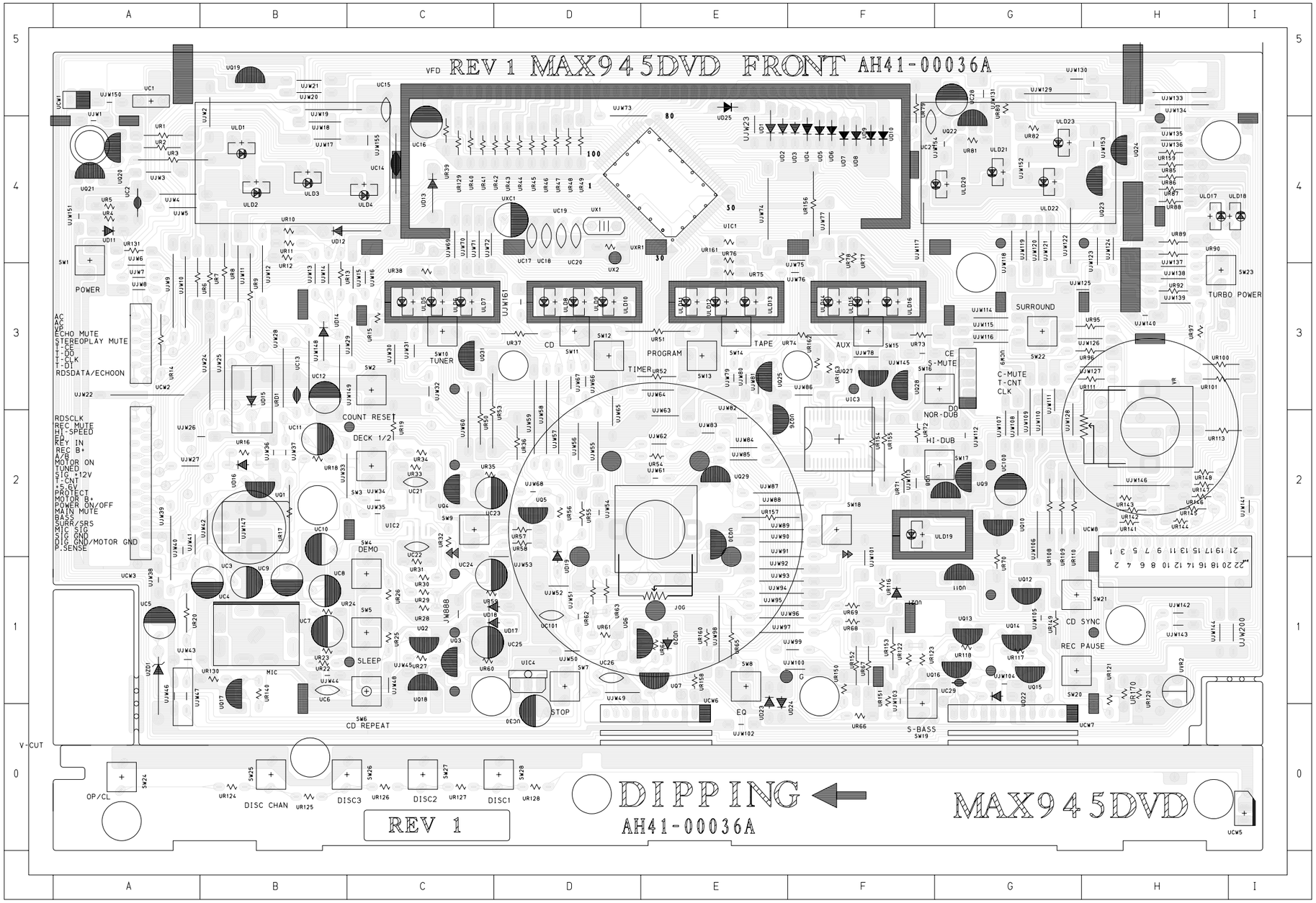
*** DIODE ***

AAD1 (I2)
AAD2 (I0)
AD1 (J1)
AD2 (J3)
AD3 (G3)
AD4 (G3)
AD5 (H0)
DD1 (B5)
DD2 (D4)
DD3 (F6)
DD4 (E5)
DD5 (F4)
DD6 (F5)
DD7 (F3)
EZD1 (D1)
FD1 (G5)
FD10 (H5)
FD2 (B5)
FZD1 (G5)
PD1 (F1)
PD2 (G2)
PD3 (G3)
PD4 (H4)
PD5 (K3)
PD6 (I5)
PD7 (I3)
PZD1 (G0)
PZD2 (F0)
PZD3 (F1)
PZD4 (F3)
PZD5 (F2)
PZD6 (G2)
PZD7 (I4)
PZD8 (J4)
PZD9 (I3)

*** IC&WAFER ***

ACW1 (H3)
CMD1 (J5)
CMD2 (J4)
DCW3 (D4)
DCW4 (D4)
DPCW1 (F1)
FCW1 (I6)
FCW2 (H5)
OCW1 (J6)
PCW1 (G2)
PCW2 (B0)

8-2 FRONT



*** DIODE ***

UD1 (E4)
UD10 (F4)
UD11 (A4)
UD12 (B4)
UD13 (C4)
UD14 (B3)
UD15 (B2)
UD16 (B2)
UD17 (C1)
UD18 (C1)
UD19 (D2)
UD2 (E4)
UD20 (E1)
UD21 (F1)
UD22 (G1)
UD23 (E1)
UD24 (E0)
UD25 (E5)
UD3 (F4)
UD4 (F4)
UD5 (F4)
UD6 (F4)
UD7 (F4)
UD8 (F4)
UD9 (F4)
UZD1 (A1)

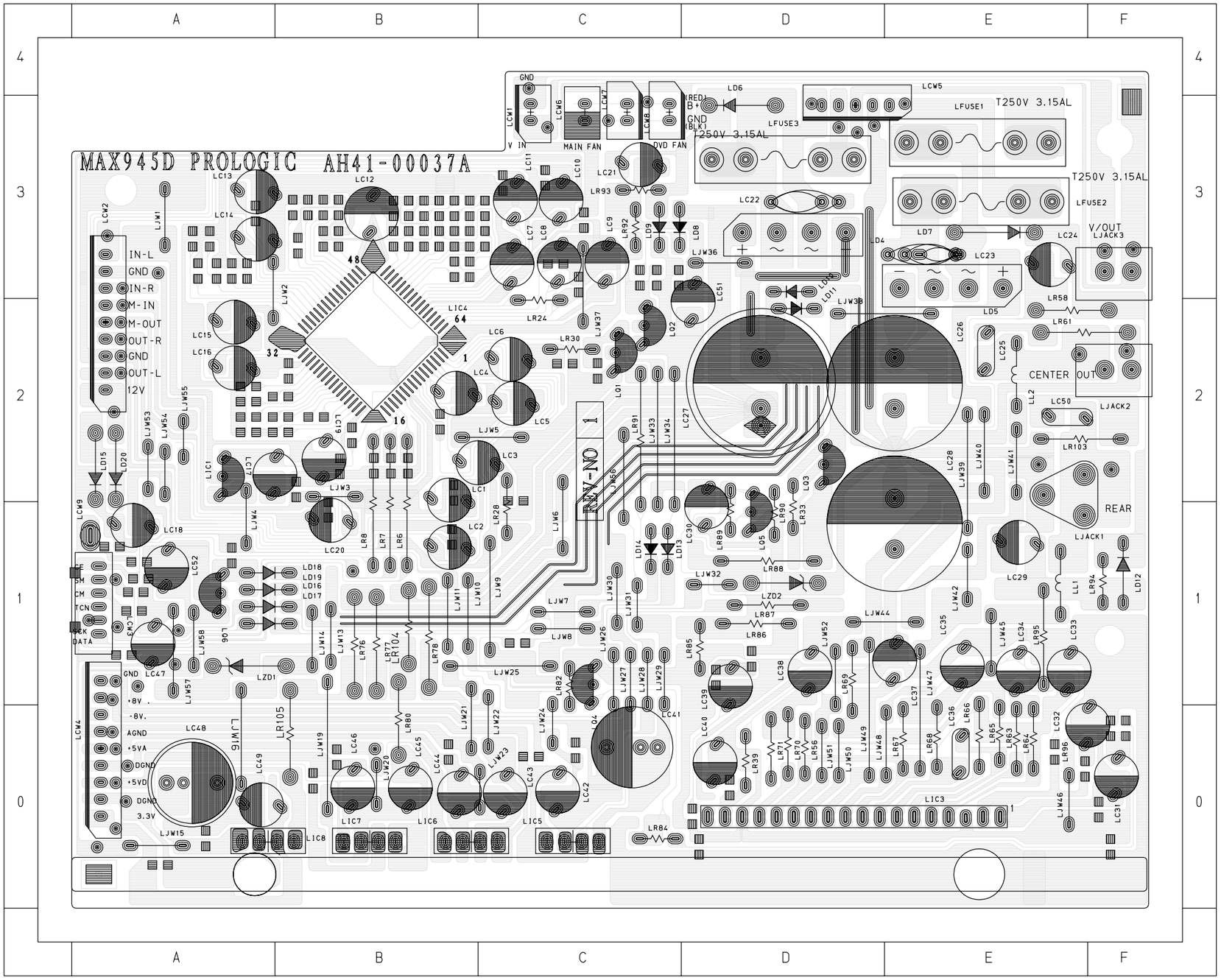
*** TR ***

UQ1 (B2)
UQ10 (G2)
UQ11 (G1)
UQ12 (G1)
UQ13 (G1)
UQ14 (G1)
UQ15 (G1)
UQ16 (G1)
UQ17 (B0)
UQ18 (C1)
UQ19 (B5)
UQ2 (C1)
UQ20 (A4)
UQ21 (A4)
UQ22 (G4)
UQ23 (H4)
UQ24 (H4)
UQ25 (E3)
UQ26 (E3)
UQ27 (F3)
UQ28 (F3)
UQ29 (E2)
UQ3 (C1)
UQ30 (E2)
UQ31 (C3)
UQ4 (C2)
UQ5 (D2)
UQ6 (D1)
UQ7 (E1)
UQ8 (F2)
UQ9 (G2)

*** IC&WAFER ***

SW1 (A4)
SW10 (C3)
SW11 (D3)
SW12 (D3)
SW13 (E3)
SW14 (E3)
SW15 (F3)
SW16 (G3)
SW17 (G2)
SW18 (F2)
SW19 (F1)
SW2 (C3)
SW20 (G1)
SW21 (G1)
SW22 (G3)
SW23 (H3)
SW24 (A0)
SW25 (B0)
SW26 (C0)
SW27 (C0)
SW28 (D0)
SW3 (C2)
SW4 (C1)
SW5 (C1)
SW6 (C1)
SW7 (D1)
SW8 (E1)
SW9 (C2)
UC1 (A5)
UCW1 (A5)
UCW5 (I0)
UCW6 (E0)
UCW7 (G0)
UIC1 (E4)

8-3 Pro-Logic



*** DIODE ***

LD10 (D3)
LD11 (D2)
LD12 (F1)
LD13 (C1)
LD14 (C1)
LD15 (A2)
LD16 (B1)
LD17 (B1)
LD18 (B1)
LD19 (B1)
LD20 (A2)
LD6 (D3)
LD7 (E3)
LD8 (C3)
LD9 (C3)
LZD1 (A1)
LZD2 (D1)

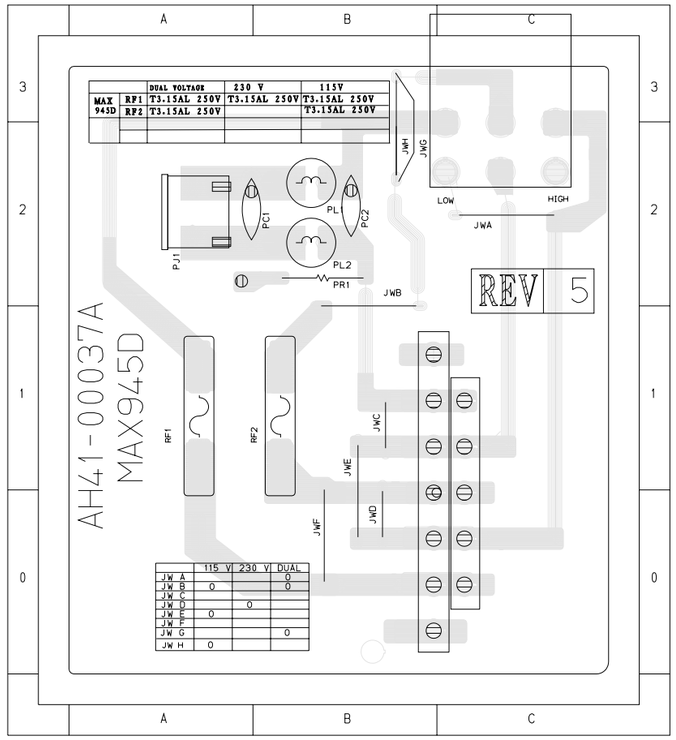
*** TR ***

LIC1 (A2)
LQ1 (C2)
LQ2 (C2)
LQ3 (D2)
LQ4 (C1)
LQ5 (D2)
LQ6 (A1)

*** IC&WAFER ***

LCW1 (C3)
LCW2 (A2)
LCW3 (A1)
LCW4 (A0)
LCW5 (D3)
LCW6 (C3)
LCW7 (C3)
LCW8 (C3)

8-4 POWER

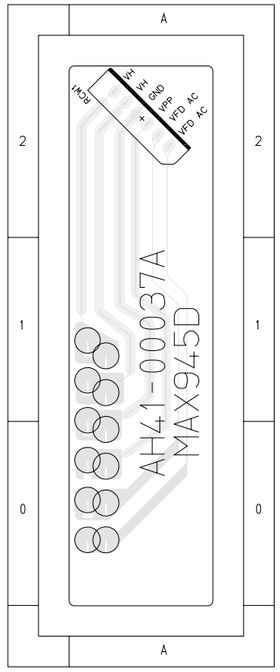


✱✱✱ RESISTOR ✱✱✱

PR1 (B2)

✱✱✱ DIODE ✱✱✱

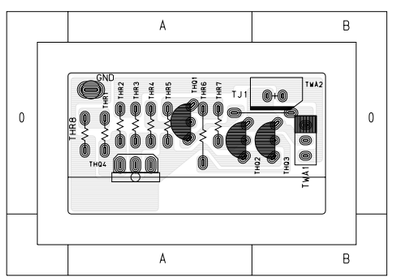
PL1 (B2)
PL2 (B2)



✱✱✱ IC&WAFER ✱✱✱

RCW1 (A2)

8-5 SUB(FAN/MECHA/TRAY/DECK)

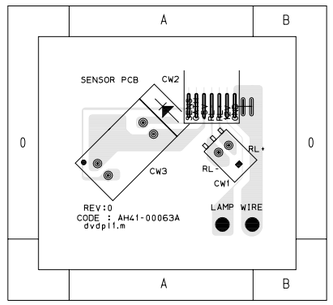


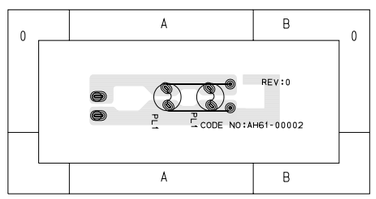
✱✱✱ TR ✱✱✱

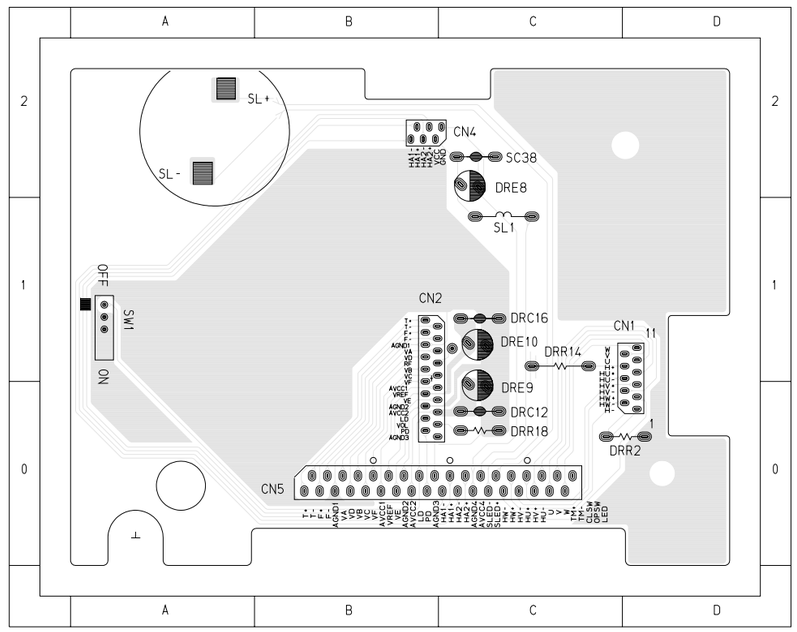
THQ1 (A0)
THQ2 (A0)
THQ3 (B0)

✱✱✱ IC&WAFER ✱✱✱

TWA1 (B0)
TWA2 (B0)







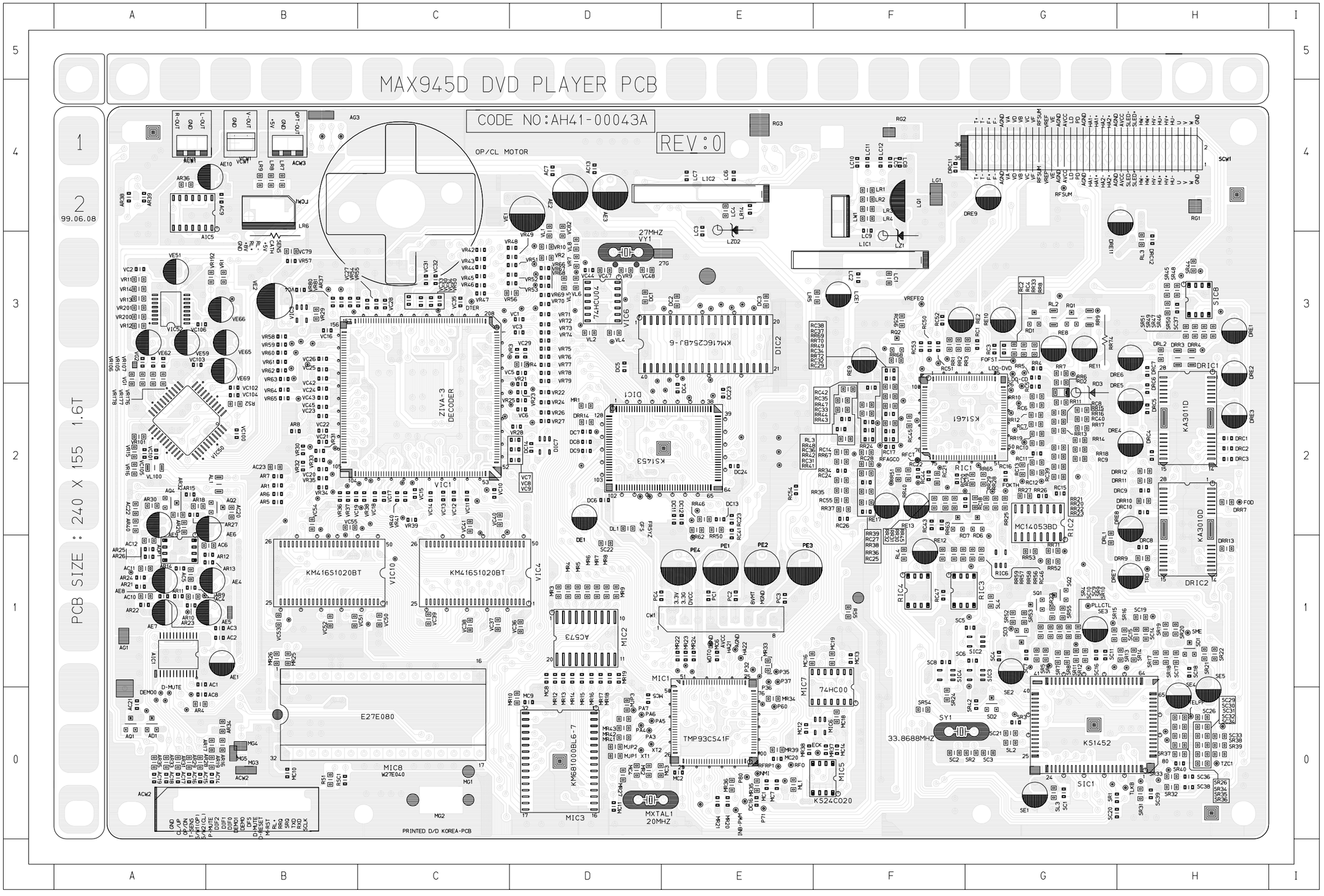
✱✱✱ RESISTOR ✱✱✱

DRR14 (C1)
DRR18 (C0)
DRR2 (C0)

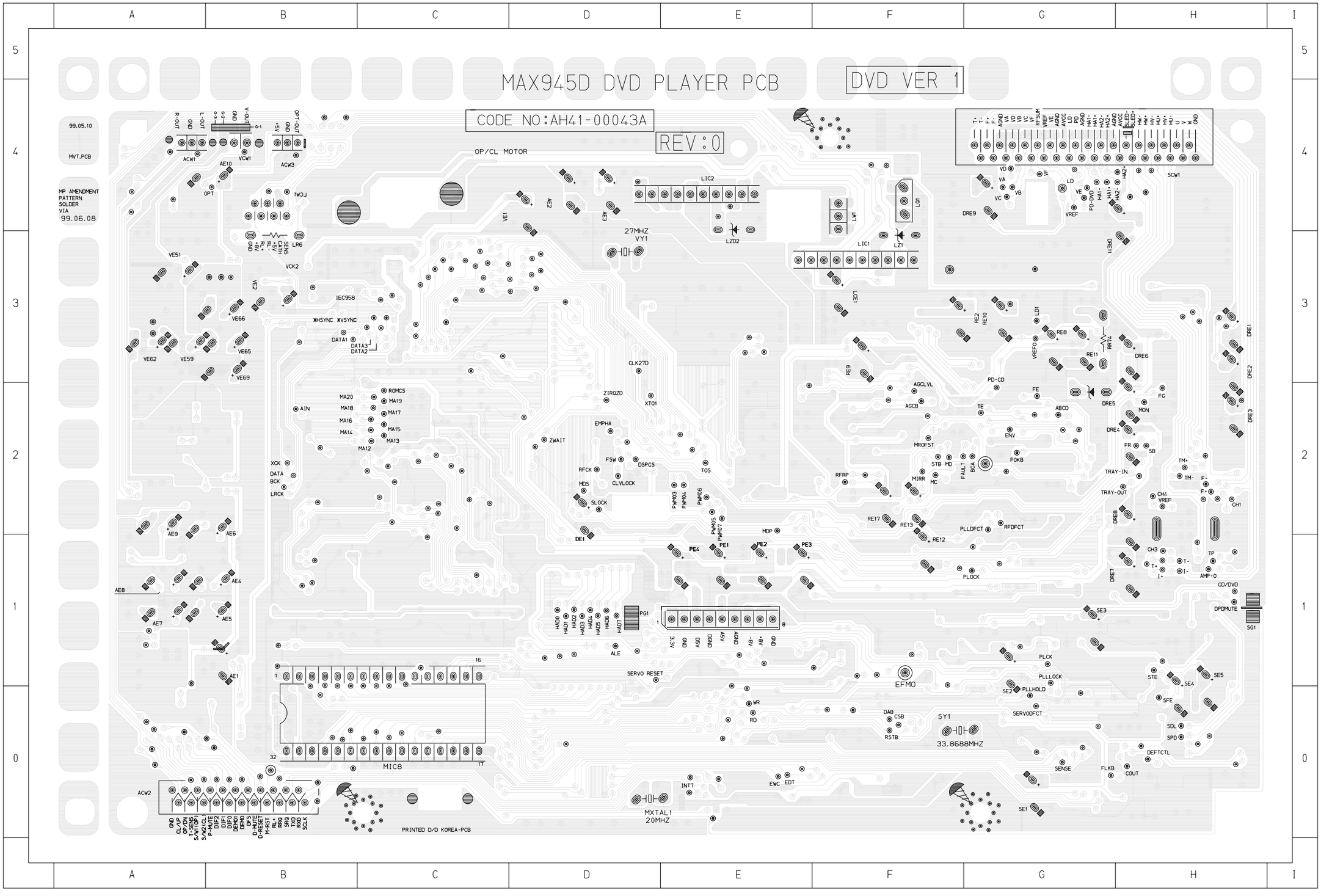
✱✱✱ CONDENSER ✱✱✱

DRC12 (C0)
DRC16 (C1)
DRE10 (C1)
DRE8 (C2)
DRE9 (C0)
SC38 (C2)

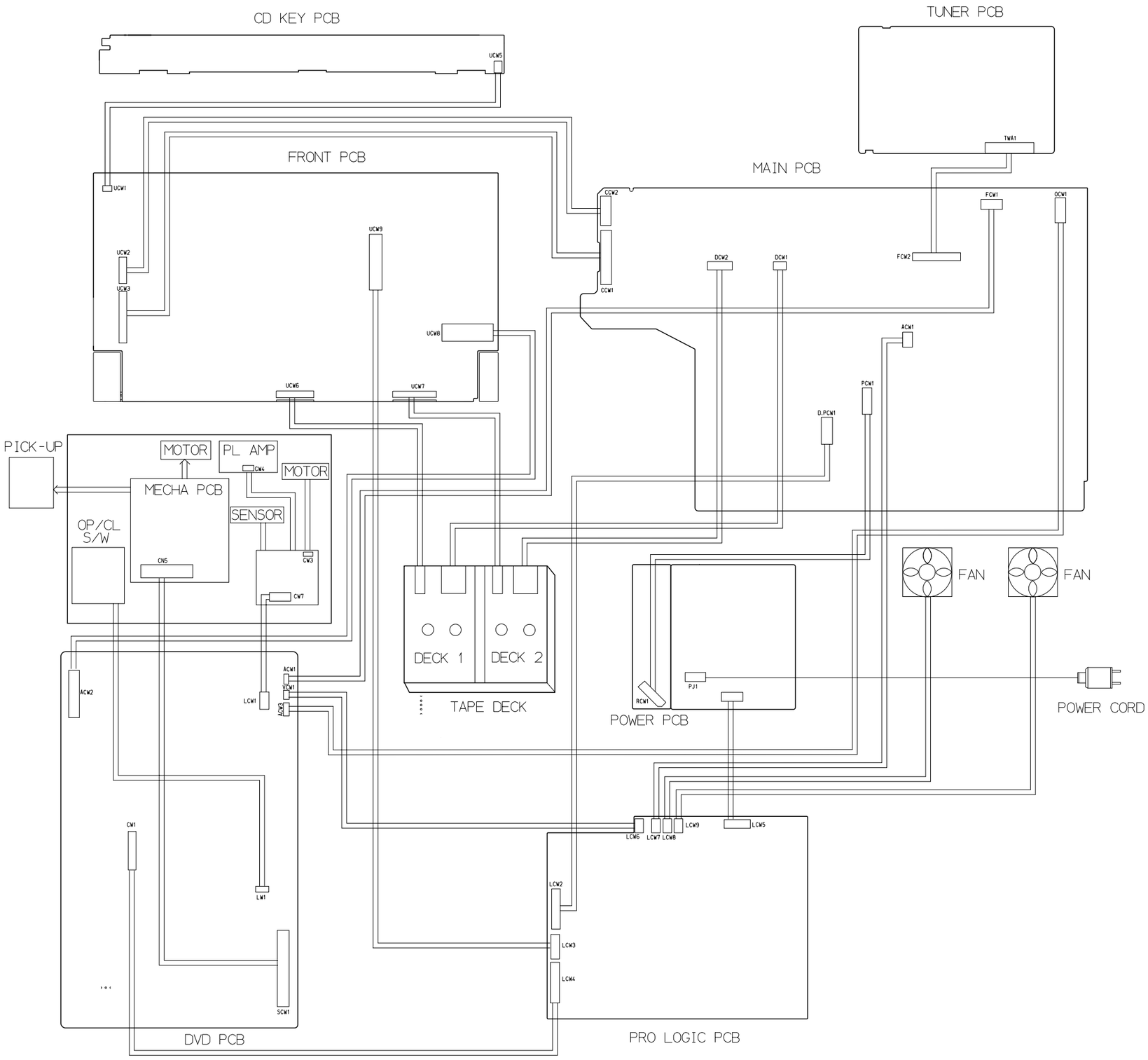
8-6 DVD(TOP View)



8-7 DVD(BOTTOM View)

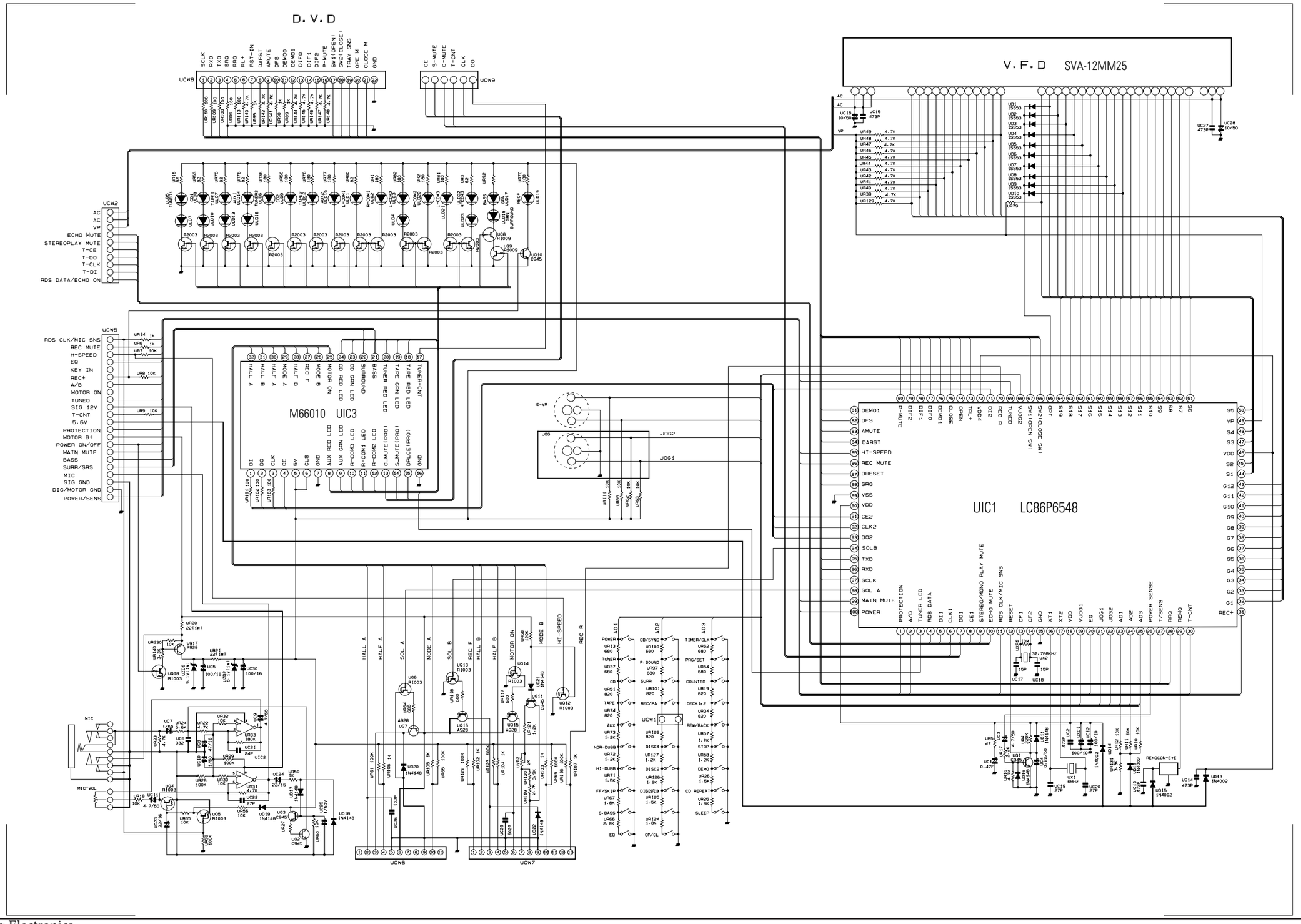


9. Wiring Diagram

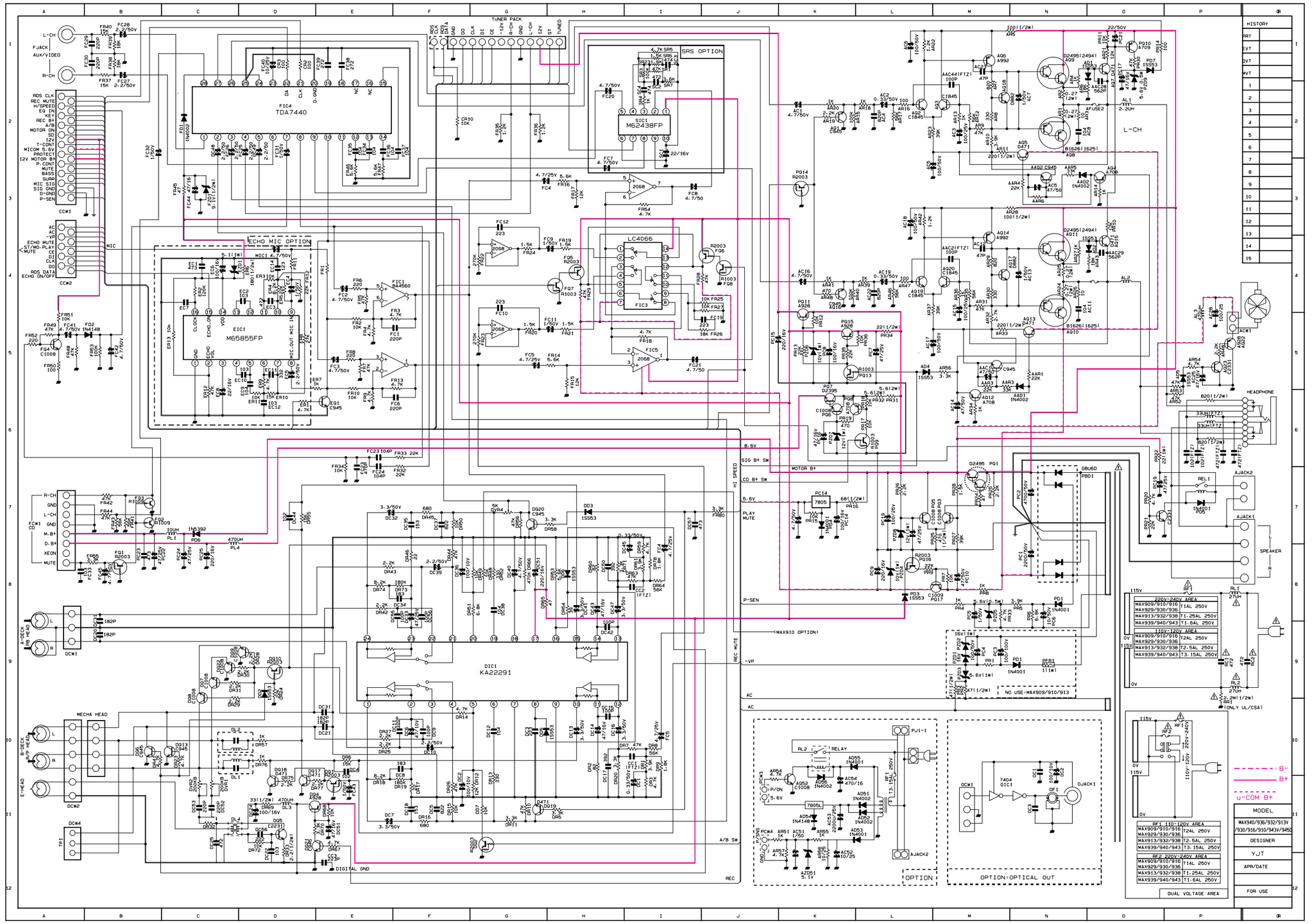


10. Schematic Diagram

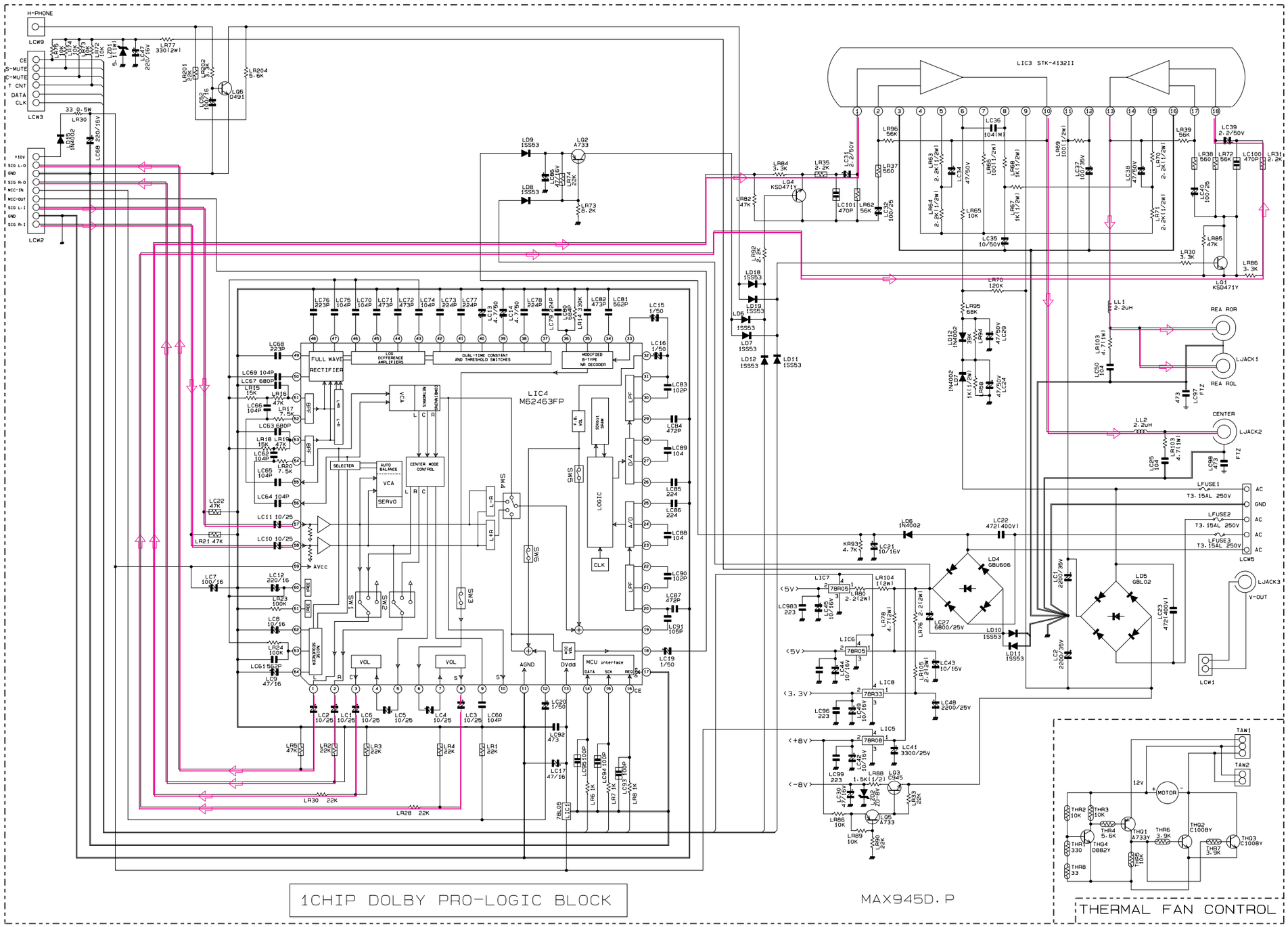
10-1 FRONT Part



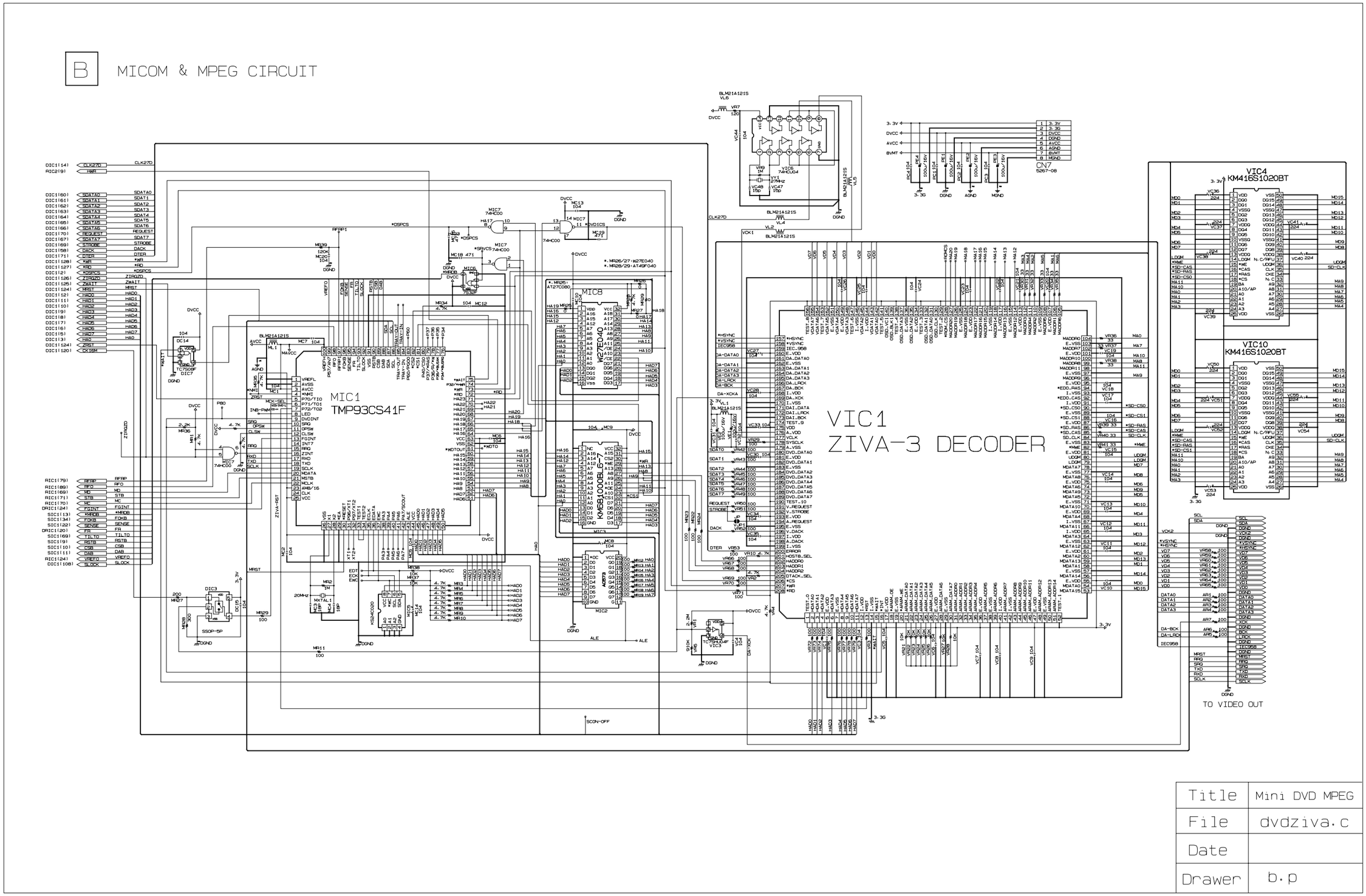
10-2 MAIN Part



10-3 PRO-LOGIC Part



10-4 MICOM AND ZIVA Part



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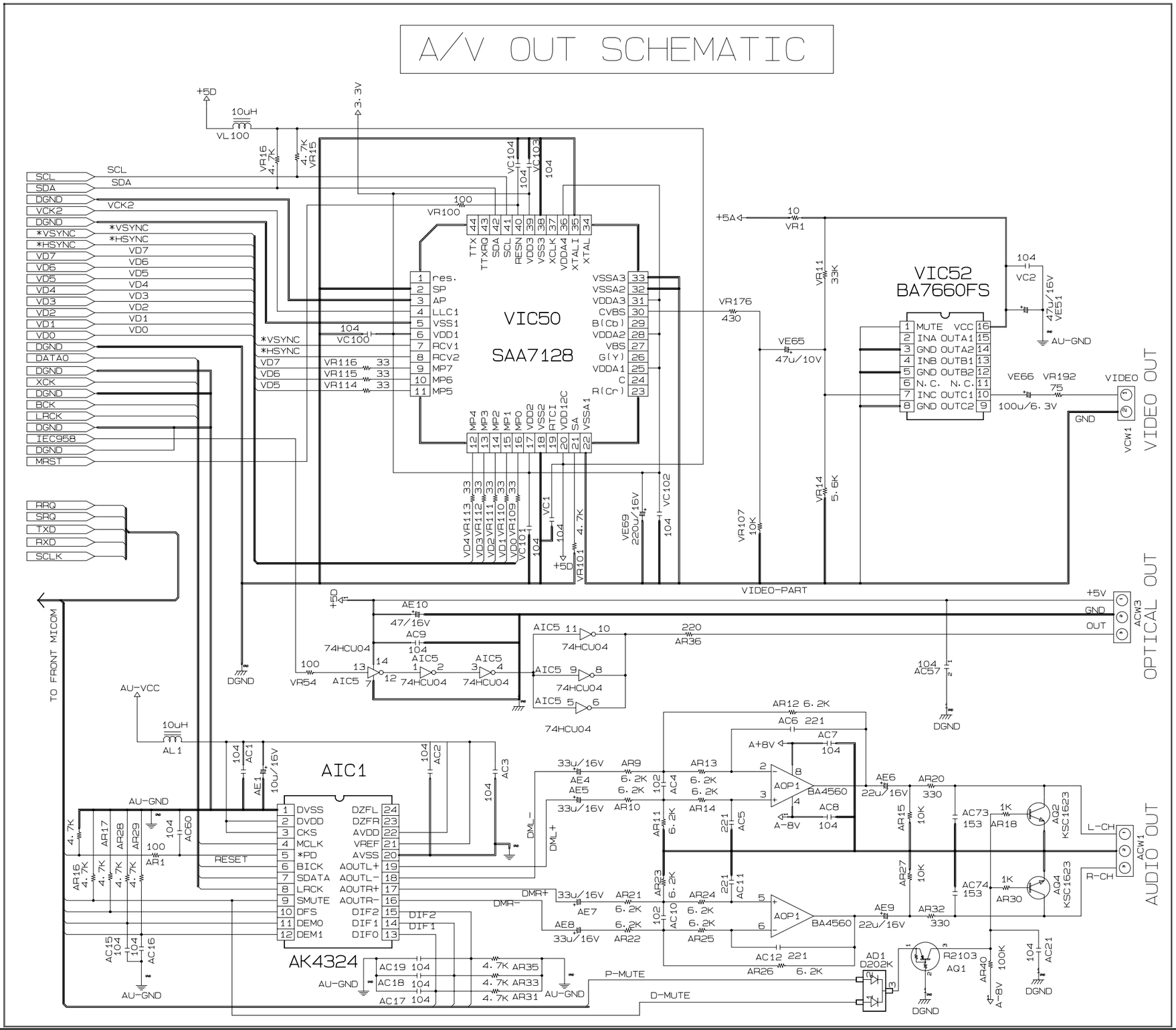
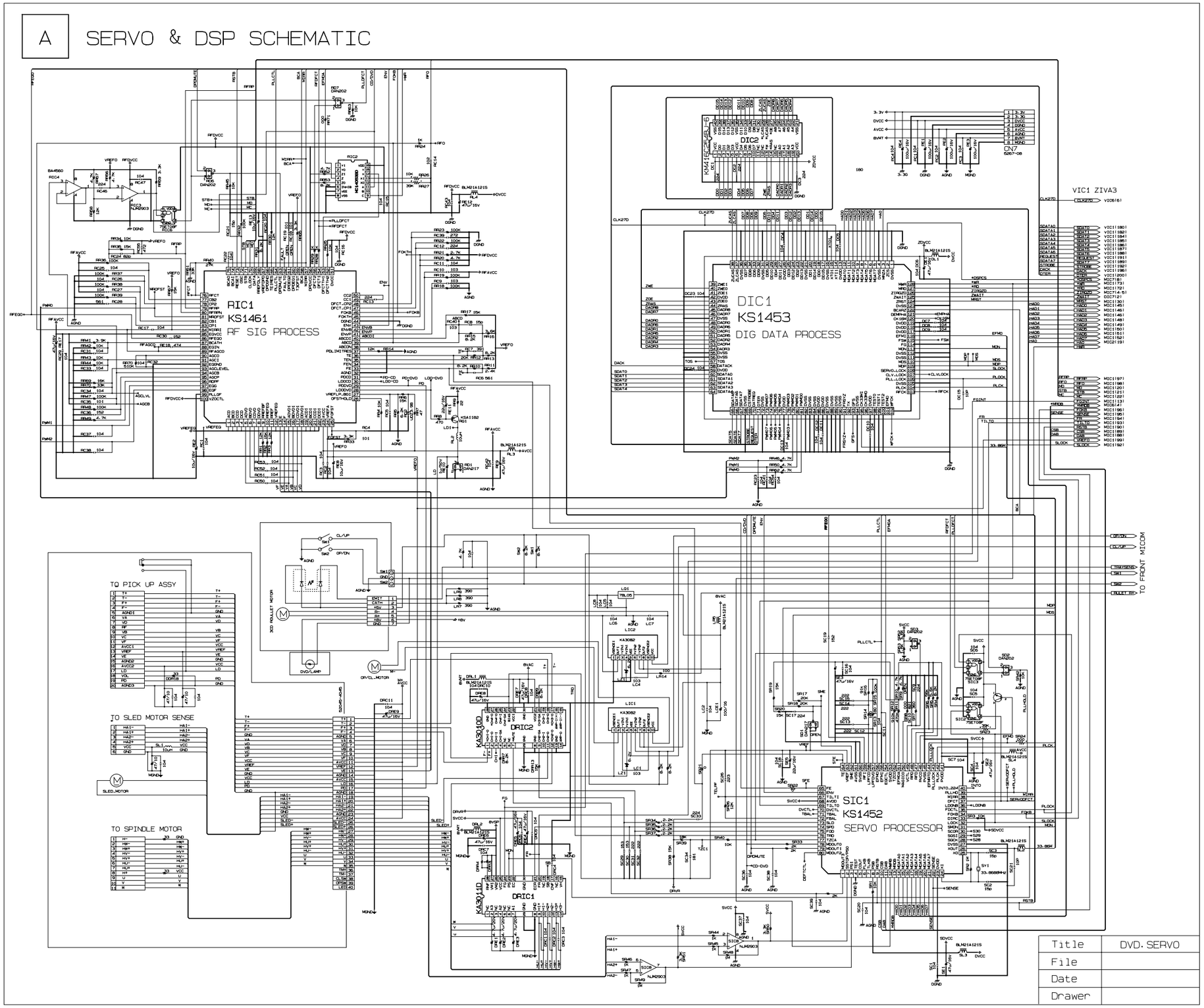
Date	
Drawer	b.p

10-5 VIDEO AND AUDIO Part



10-6 RF AND SERVO Part